










## 2021 - 2022 Major Map

### Neuroscience, BS

School/College: The College of Liberal Arts and Sciences  
LABMENBS

Term 1 - A 0 - 8 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
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	C	<ul style="list-style-type: none"> <li>ASU 101 or college-specific equivalent First-Year Seminar required of all first-year students</li> </ul>
ASU 101-LA: The ASU Experience	1		
BIO 181: General Biology I (SQ)	4	C	
Term hours subtotal:	8		
Term 1 - B 8 - 14 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 NEU 101: Introduction to Neuroscience	3	C	<ul style="list-style-type: none"> <li>View ASU Online first-year student registration information <a href="#">here</a>.</li> <li>Select your Career Interest Communities and play <a href="#">me3@ASU</a>.</li> <li>Join a student club or <a href="#">professional organization</a>.</li> </ul>
MAT 251: Calculus for Life Sciences (MA) OR MAT 265: Calculus for Engineers I (MA)	3	C	
Term hours subtotal:	6		
Term 2 - A 14 - 21 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
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	C	
BIO 182: General Biology II (SG)	4	C	
Term hours subtotal:	7		
Term 2 - B 21 - 27 Credit Hours	Hours	Minimum Grade	Notes
PSY 101: Introduction to Psychology (SB)	3	C	<ul style="list-style-type: none"> <li>Participate in a <a href="#">volunteer experience</a>.</li> </ul>
Humanities, Arts and Design (HU) AND Cultural Diversity in the U.S. (C)	3		
Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Term hours subtotal:	6		
Term 3 - A 27 - 34 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 CHM 113: General Chemistry I (SQ)	4	C	<ul style="list-style-type: none"> <li>Take advantage of <a href="#">online tutoring resources</a>.</li> </ul>
Humanities, Arts and Design (HU) AND Historical Awareness (H)	3		
Term hours subtotal:	7		
Term 3 - B 34 - 40 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
NEU 294: Design and Statistics for Neuroscience OR PSY 230: Introduction to Statistics (CS) OR STP 226: Elements of Statistics (CS) OR STP 231: Statistics for Life Science (CS)	3	C	

Social-Behavioral Sciences (SB) AND Global Awareness (G)	3
❗ Complete Mathematics (MA) requirement.	
Complete First-Year Composition requirement.	
Term hours subtotal:	6

Term 4 - A 40 - 47 Credit Hours Critical course signified by ❗	Hours	Minimum Grade	Notes
❗ CHM 116: General Chemistry II (SQ)	4	C	
Science and Society Elective	3	C	
Term hours subtotal:	7		

Term 4 - B 47 - 53 Credit Hours	Hours	Minimum Grade	Notes
Computer/Statistics/Quantitative Applications (CS)	3		
Literacy and Critical Inquiry (L)	3		• Participate in an <b>internship</b>
Term hours subtotal:	6		

Term 5 - A 53 - 59 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ Upper Division Major Track Electives	3	C	
Upper Division Science and Society Elective	3	C	
Term hours subtotal:	6		<ul style="list-style-type: none"> <li>• For the Upper Division Major Track Electives, one course is required from each of three of the four tracks of study, with additional electives from any of the tracks to complete the 21 required total hours.</li> <li>• The College of Liberal Arts and Sciences' Residency Requirement: Before graduation, at least 12 credit hours of upper-division (300 and 400 level) track coursework must be completed through courses offered by The College of Liberal Arts and Sciences.</li> </ul>

Term 5 - B 59 - 65 Credit Hours	Hours	Minimum Grade	Notes
Complete 2 courses:			
Upper Division Elective	6		• Take advantage of <b>career resources</b>
Term hours subtotal:	6		

Term 6 - A 65 - 71 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ Complete 2 courses:			
Upper Division Major Track Electives	6	C	• Draft a <b>resume</b>
Term hours subtotal:	6		

Term 6 - B 71 - 77 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
Upper Division Humanities, Arts and Design (HU) OR Upper Division Social-Behavioral Sciences (SB)	3		
Upper Division Literacy and Critical Inquiry (L)	3		
★ Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).			
Term hours subtotal:	6		

Term 7 - A 77 - 83 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ Complete 2 courses:			
Upper Division Major Track Electives	6	C	• Use Handshake to research <b>employment opportunities</b>
Term hours subtotal:	6		

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Term 7 - B 83 - 89 Credit Hours	Hours	Minimum Grade	Notes
Complete 2 courses: Elective	6		
Term hours subtotal:	6		
Term 8 - A 89 - 95 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ Complete 2 courses: Upper Division Major Track Electives	6	C	
Term hours subtotal:	6		
Term 8 - B 95 - 101 Credit Hours	Hours	Minimum Grade	Notes
Complete 2 courses: Upper Division Elective	6		• Gather professional references
Term hours subtotal:	6		
Term 9 - A 101 - 107 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ Upper Division Elective	3		• Apply for graduate school
Elective	3		
Term hours subtotal:	6		
Term 9 - B 107 - 113 Credit Hours	Hours	Minimum Grade	Notes
Complete 2 courses: Elective	6		
Term hours subtotal:	6		
Term 10 - A 113 - 120 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ Complete 3 courses: Elective	7-8		• Apply for full-time career opportunities
Term hours subtotal:	7-8		

- One course is required from each of three of the four tracks of study, with additional electives from any of the tracks to complete the 21 required total hours.
- All students pursuing a BS or BSP degree in The College of Liberal Arts and Sciences must complete two courses from the Science and Society list found at <https://thecollege.asu.edu/resources/science-society>. At least one of the two courses must be upper-division and students must earn a C or better in the courses. Both Science and Society courses (i.e., all six credits) may count towards any major, minor, related fields, and ASU General Studies requirements.

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

Behavioral Neuroscience	Cellular and Molecular Neuroscience	Cognitive Neuroscience
BIO 477: Systems and Behavioral Neuroscience	BIO 331: Animal Behavior	NEU 394: Fundamentals of Cognitive Neuroscience
NEU 307: Your Brain on Drugs	BIO 360: Animal Physiology	NEU 394: Neuroimaging Methods
NEU 394: Biopsychology	BIO 467: Neurobiology	NEU 394: Neuroscience of Perception
NEU 394: Neuroscience of Learning and Motivation	BIO 476: Cellular and Molecular Neuroscience	NEU 494: Cognitive Neuroscience of Memory

NEU 494: Anatomy of the Nervous System

NEU 494: Brain and Emotion

Systems and Computational Neuroscience

BIO 439: Computing for Research

BIO 477: Systems and Behavioral Neuroscience

SHS 310: Anatomical and Physiological Bases of Speech

SHS 367: Language Science (SB)

SHS 485: Acquired Speech and Language Disorders

#### Notes:

- First-Year Composition: All students are placed in ENG 101 unless submission of SAT, ACT, Accuplacer, IELTS, or TOEFL score, or college-level transfer credit or test credit equivalent to ASU's first-year composition course(s), determine otherwise. Students on Polytechnic, Downtown Phoenix and West Campuses are encouraged to complete the Directed Self-Placement survey to choose the first-year composition option they believe best suits their needs. Visit: <https://cisa.asu.edu/DSP>
- Mathematics Placement Assessment score determines placement in first mathematics course.

Please keep in mind that the applicability of a specific transfer course toward an ASU degree program depends on the requirements of the department, division, college or school in which you are enrolled at ASU. Transfer agreements that guarantee the completion of university level requirements do not necessarily meet college and major requirements. Please consult with an advisor for more information.

**Total Hours:** 120

**Upper Division Hours:** 45 minimum

**Major GPA:** 2.00 minimum

**Cumulative GPA:** 2.00 minimum

**Total hrs at ASU:** 30 minimum

**Hrs Resident Credit for**

**Academic Recognition:** 56 minimum

**Total Community College Hrs:** 64 maximum

**Total College Residency Hrs:** 12 minimum

#### General University Requirements Legend

General Studies Core Requirements:

- Literacy and Critical Inquiry (L)
- Mathematical Studies (MA)
- Computer/Statistics/Quantitative Applications (CS)
- Humanities, Arts and Design (HU)
- Social-Behavioral Sciences (SB)
- Natural Science - Quantitative (SQ)
- Natural Science - General (SG)

General Studies Awareness Requirements:

- Cultural Diversity in the U.S. (C)
- Global Awareness (G)
- Historical Awareness (H)

#### First-Year Composition

General Studies designations listed next to courses on the major map were valid for the 2021 - 2022 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.