Roadmap: Bachelor of Science – Neuroscience
College of Arts & Sciences
Catalog Year: 2018-2019

This roadmap is a recommended semester-by-semester plan of study for this program. The plan shown assumes full-time enrollment. Courses and milestones designated as critical (in boldface and shaded areas) must be completed in the semester listed to ensure a timely graduation. Courses listed in boldface only are also major requirements, but may be taken at any time once prerequisites have been met. The semester a course is offered is subject to change.

Course Subject and Title	Credits	Important Notes
Semester One (15 credits)		
PSY 1010: General Psychology	**3**	
BIOL 1240/BIOL 1245: Principles of Biology I w/Lab	**4**	
CHEM 1110/CHEM 1115: General Chemistry 1 w/Lab	**4**	
UNIV 1010: Enhancing First Year Success	1	
A&S Core	3	
Semester Two: (16 credits)		
Participation in First-Year Mentoring Events		
BIOL 1260/BIOL 1265: Principles of Biology II w/Lab	**4**	
CHEM 1120/CHEM 1125: General Chemistry 2 w/Lab	**4**	
PSY 2050: Foundations of Research Methods	**4**	
MATH 1510: Calculus I	**4**	
Semester Three: (15 credits)		
BIOL 3020: Biochemistry and Molecular Biology	**3**	
PSY 3100: Brain, Mind, & Society	**3**	
A&S Core	3	
A&S Core	3	
A&S Core	3	
Semester Four: (15 credits)		
BIOL 3040: Cellular Structure & Function	**3**	
NEUR 3400: Introduction to Neuroscience 1	**3**	
A&S Core	3	
A&S Core	3	
A&S Core	3	
Semester Five: (15-18 credits)		
NEUR 3500: Introduction to Neuroscience 2	**3**	
NEUR 3550: Neuroscience Laboratory	**1**	
PHYS 1310 / PHYS 1320: Physics I w/ Lab	**4**	
Biology or Psychology Elective	**2-5**	See information in Program Notes
A&S Core	3	
Semester Six: (15-18 credits)		
Biology or Psychology Elective	**2-5**	See information in Program Notes
Biology or Psychology Elective	**2-5**	See information in Program Notes
A&S Core	3	
A&S Core	3	
A&S Core	3	

PLEASE NOTE: This roadmap is an example of what a four-year plan could look like for a typical student. Advanced Placement exam scores, 1-8-1-8 credit and transfer credit may change the roadmap. It should not be used in the place of regular academic advising appointments. All students are encouraged to meet with their advisor each semester. All requirements are subject to change.

Critical requirements are boldface in shaded areas.

Course Subject and Title	Credits	Important Notes
Semester Seven: (15-18 credits)		
PHIL 4280: Biology & Mind	**3**	
Biology or Psychology Elective	**2-5**	See information in Program Notes
Biology or Psychology Elective	**2-5**	See information in Program Notes
A&S Core	3	
Elective (if needed)		
Semester Eight (15-18 credits)		
NEUR 4900: Neuroscience Seminar	**3**	
Biology or Psychology Elective	**2-5**	See information in Program Notes
Capstone/Inquiry/Honors Project	**1-3**	See information in Program Notes
A&S Core	3	
Elective (if needed)		
Elective (if needed)		

Program Notes

Approved Biology Electives (must take one lab course, lab courses in italics):

BIOL 3010 Evolution, BIOL 3030 Principles of Genetics, *BIOL 3060 Cell Structure & Function Laboratory, BIOL 3100 Experiments in Genetics Lab, BIOL 3420 Comparative Anatomy of the Vertebrates, BIOL 3470 General Physiology Laboratory,* BIOL 3480 Exercise Physiology, BIOL 4010 Sex, Evolution, and Behavior, BIOL 4030 Introduction to Genomics, *BIOL 4050 Molecular Technique Laboratory*, BIOL 4070 Advanced Biological Chemistry, BIOL 4080 Advanced Cell Biology, BIOL 4150 Nerve Cell Mechanisms in Behavior, BIOL 4250 Neurobiology of Disease, BIOL 4360 Animal Behavior, *BIOL 4370 Animal Behavior Lab*, BIOL 4410 Comparative Animal Physiology, *BIOL 4440 Vertebrate Histology: Structure and Function of Tissues*, BIOL 4500 Introductory Endocrinology, BIOL 4510 Behavioral Endocrinology, BIOL 4540 Human Systemic Physiology, BIOL 4600 Developmental Biology, *BIOL 4610 Developmental Biology Lab*, BIOL 4630 Foundations of Immunobiology, BIOL 4700 Molecular Biology

Approved Psychology Electives:

PSY 3120 Cognitive Psychology, PSY 3160 Learning & Memory, PSY 3210 Developmental Psychology: Child, PSY 3230 Developmental Psychology: Adolescence, PSY 3300 Social Psychology, PSY 3310 Personality Theory, PSY 4140 Psychopharmacology, PSY 4150 Science of Sleep, PSY 4350 Health Psychology, PSY 4390 Abnormal Psychology, PSY 4720 Psychology of Aging

Approved Capstone/Inquiry/Honors courses:

BIOL 4890 Senior Inquiry: Comprehensive Examination, BIOL 4970 Library Project, BIOL 4980 Advanced Independent Research, PSY 3060/PSY 4010 Advanced Research Methods and Statistics (two semester sequence, note also that PSY 3930 is a prerequisite for PSY 3060), PSY 4870 Capstone Practicum, PSY 4880 Capstone Research Project, PSY 4900 Critical Thinking about Psych

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