# Bachelor of Science in Neuroscience & Cognitive Science

**Expected Graduation**

**Focus:** Neuroscience / Cognitive Science

**Catalog:** 2022+

## University Foundations & General Education

### Composition
- ENGL 101 or equivalent .................................................. 3 ☐
- ENGL 102 or equivalent .................................................. 3 ☐
- Or ENGL 109H (pre-med requires add't course – see advisor) ..... 3 ☐

### Second Language
2nd semester proficiency by credit or exam required .............. ☐

### Pre-req Mathematics (starting course depends on placement)
- MATH 100 ..... 3 ☐ -> MATH 112 ..... 3 ☐ -> MATH 120R ..... 4 ☐

### Intro to General Education: UNIV 101 .............................. 1 ☐

### GE Exploring Perspectives
- Artist __________ 3 ☐
- Social Scientist __________ 3 ☐
- Humanist __________ 3 ☐

### GE Building Connections
- 3 ☐

### General Education Capstone: UNIV 301 .............................. 1 ☐

## NSCS Foundation/Supporting Coursework

### Chemistry
- CHEM 151 (lec & lab combined) (F,SS) .................................. 4 ☐

### Biology
- MCB 181R (lec) and MCB 181L (lab) (F,SS) .......................... 3 ☐ 1 ☐

### Physics
- PHYS 102 (lec) and 181 (lab) (F,SS) [or PHYS 141] ............... 3 ☐ 1 ☐

### Mathematics
- MATH 122A&B or MATH 125 (F,SS) ....................................... 3 - 5 ☐

### Statistics
- MATH 263 recommended for pre-med students .................. 3 ☐

### Philosophy
- PHIL 241 (F,SS) or PHIL 347 (F,SS) ..................................... 3 ☐

## Gateway Course (Pre-req for All NSCS / NROS Courses)

- NSCS 200 Fundamentals of Neuroscience & Cognitive Science .... 3 ☐
  - *Course pre-reqs: MCB 181R/L and PSY 150A1 or 101

## Major Core (Must Complete NSCS 200 First)

- NROS 307 Cellular Neurophysiology (S) (Honors Section) ......... 3-4 ☐
- NROS 308 Methods in Neuroscience (S) .............................. 1 ☐
- NROS 311 Scientific Programming with MATLAB (S) ............... 3 ☐
- CGSC 320 Issues & Themes in Cognitive Science (F) ................. 3 ☐
- CGSC 321 Methods in Cognitive Science (F) .......................... 1 ☐

## Foundation & Major Focus

**Complete at least 18 units from one focus**

### Option 1: Neuroscience Focus

- CHEM 152 (lec & lab combined) (F,SS) .................................. 4 ☐
- CHEM 241A (lec) and CHEM 243A (lab) (F,SS) ......................... 3 ☐ 1 ☐
- PHYS 103 (lec) and 182 (lab) (F,SS) [or PHYS 241] ................. 3 ☐ 1 ☐
- NROS 310 Mol & Cell Bio of Neurons (S) (Honors Section) ....... 3-4 ☐
- NROS 418 Fund Principles in Systems Neuro (S) .................. 3 ☐

### Option 2: Cognitive Science Focus

- CGSC 344 Modeling the Mind ............................................ 3 ☐
  - Take 3 courses from at least 2 categories listed below (see full curriculum for options)
  - Cognitive Psychology  Linguistics  Philosophy
  - 1_2_3

### Emphasis Electives

**Complete 15 units from one emphasis listed below. Course listing at nscs.arizona.edu.**

- Up to 6 units of upper-division research, internship, or thesis credit may be applied.
- Up to 3 units of preceptorship credit may be applied.
- At least 9 units of coursework is required.

- ☐ Cognition
- ☐ Computation
- ☐ Development & Aging
- ☐ Lang. & Comm. Sci
- ☐ Neurobiology
- ☐ Philosophy of Mind
- ☐ Thematic

## Additional Graduation Requirements

- 120 total units ☐ 42 upper div. units ☐ 2.000+ cumulative GPA ☐ 2.000+ major GPA ☐ MCWA complete _____ 30= total units at UA____ Final 18 or 30 units complete _____ <60 correspondence/UA exam units ____ 18+ NSCS Units at UA____