

BACHELOR OF SCIENCE IN NEUROSCIENCE & COGNITIVE SCIENCE

NAME _____ STUDENT ID _____

EXPECTED GRADUATION _____ FOCUS: **Neuroscience** / **Cognitive Science** CATALOG: **2018-19, 2019-20**

UNIVERSITY FOUNDATIONS & GENERAL EDUCATION

Composition

ENGL 101 or equivalent 3 ____
 ENGL 102 or equivalent 3 ____
 or ENGL 109H (pre-med requires addtl course- see advisor) 3 ____

Second Language

2nd semester proficiency by credit or exam required _____

Mathematics

Requirement satisfied by NSCS supporting coursework

Tier One

Individuals & Societies

_____ 150 ____ 3 ____
 _____ 150 ____ 3 ____

Traditions & Cultures

_____ 160 ____ 3 ____
 _____ 160 ____ 3 ____

Tier Two

Individuals & Societies

_____ 3 ____

Humanities

_____ 3 ____

Arts

_____ 3 ____

Diversity Emphasis (Gender/Race/Class/Ethnicity/Sexual Orient./Non Western)

One course must be taken from the Diversity Emphasis list _____

NSCS FOUNDATION/SUPPORTING COURSEWORK

Chemistry

CHEM 151 (lec & lab combined) (F, S, SS) 4 ____

Biology

MCB 181R (lec) (F, S, SS) **and** MCB 181L (lab) (F, S) 3 ____ 1 ____

Physics

PHYS 102 (lec) **and** 181 (lab) (F, S, SS) [or PHYS 141]... 3 ____ 1 ____

Mathematics

MATH 122A&B or MATH 125 (F, S, SS) 3-5 ____

Statistics (MATH 263 recommended for pre-med students)

MATH 263 or PSY 230 3 ____

Philosophy

PHIL 241 (F, S, SS) 3 ____

FOUNDATION FOCUS (MUST MATCH MAJOR FOCUS)

Complete 12 units from one focus

Option 1: Neuroscience Focus

CHEM 152 (lec & lab combined) (F, S, SS) 4 ____
 CHEM 241A (lec) **and** CHEM 243A (lab) (F, S, SS) 3 ____ 1 ____
 PHYS 103 (lec) **and** 182 (lab) (F, S, SS) [or PHYS 241] 3 ____ 1 ____

Option 2: Cognitive Science Focus

NSCS 344 Modeling the Mind (s) 3 ____

Take 3 courses from at least 2 categories (see full curriculum for options):

Cognitive Psychology Linguistics Philosophy

_____ 3 ____ _____ 3 ____
 _____ 3 ____

GATEWAY COURSE (APPLY TO MAJOR WHILE ENROLLED)

Students are ELIGIBLE TO APPLY to the full major when they have:

1. Completed MCB 181R/L, CHEM 151, and PSY 101 or 150A1 (pre-req for NSCS 200). These courses must be completed before taking NSCS 200 and applying to the major.
2. Completed or enrolled in calculus, statistics, NSCS 200, CHEM 152 (neuro focus), one foundation focus course (cog sci focus)
3. Science GPA of at least 2.5

NOTE: All other courses may be completed before or after admission to the major. Exceptions may be granted for requirements 2 & 3 on a case-by-case basis. See your advisor.

NSCS 200 Fundamentals of Neurosci & Cog Sci (s) 3 ____

*Course pre-reqs: MCB 181R/L and PSY 101 or 150A1

MAJOR CORE (MUST COMPLETE NSCS 200 FIRST)

NSCS 307 Cellular Neurophysiology (F) (Honrs Option) .3-4 ____

NSCS 308 Methods in Neuroscience (F) 1 ____

NSCS 311 Scientific Programming with MATLAB (F) 3 ____

NSCS 320 Issues & Themes in Cognitive Science (F) . 3 ____

NSCS 321 Methods in Cognitive Science (F) 1 ____

MAJOR FOCUS (MUST MATCH FOUNDATION FOCUS)

Complete 6 units from one focus

Option 1: Neuroscience Focus

NROS 310 Mol & Cell Bio of Neurons (S) (Honrs Option) 3-4 ____

NROS 418 Fund Principles in Systems Neuro (S) 3 ____

Option 2: Cognitive Science Focus

Take 2 courses from the Cognition Emphasis list (courses cannot double-dip):

_____ 3 ____ _____ 3 ____

EMPHASIS ELECTIVES

Complete 15 units from one emphasis. Up to 6 units of upper-division research, internship, preceptorship (max 3 units), or thesis credit may be applied. Course listing at nscs.arizona.edu

Course	Units
Cognition	_____
Computation	_____
Development & Aging	_____
Lang. & Comm. Science	_____
Neurobiology	_____
Philosophy of Mind	_____
Thematic	_____
Total Units	_____

ADDITIONAL NSCS GRADUATION REQUIREMENTS

Special Lectures Ethics Science Policy

Program Assessment Completed

ADDITIONAL GRADUATION REQUIREMENTS: 120 total units 42 upper div. units 2.000+ cum GPA 2.000+ major GPA

MCWA complete _____ 30+ total units at UA _____ Final 18 of 30 units complete _____ <60 correspondence/UA exam units _____ 18+ NSCS units at UA _____