

# NEUROSCIENCE AND COGNITIVE SCIENCE/PSYCHOLOGICAL SCIENCES DOUBLE MAJOR CHECK SHEET

NAME \_\_\_\_\_ STUDENT ID \_\_\_\_\_

EXPECTED GRADUATION \_\_\_\_\_ NSCS FOCUS: **Neuroscience / Cognitive Science** CATALOGS: **2018-19 and after**

## UNIVERSITY FOUNDATIONS & GENERAL EDUCATION

### Composition

ENGL 101 or equivalent ..... 3 \_\_\_\_  
 ENGL 102 or equivalent ..... 3 \_\_\_\_  
**or** ENGL 109H\* ..... 3 \_\_\_\_  
 (\*need grade of C or better, additional course needed for pre-med- see advisor)

### Second Language

2nd semester proficiency by credit or exam required \_\_\_\_\_  
 (grade of C or better required in second semester)

### Mathematics

MATH 122A&B **or** MATH 125 (F, S, SS) ..... 3-5 \_\_\_\_

### Tier One (do not take PSY 150A1)

#### Individuals & Societies

\_\_\_\_\_ 150 \_\_\_\_ 3 \_\_\_\_  
 \_\_\_\_\_ 150 \_\_\_\_ 3 \_\_\_\_

#### Traditions & Cultures

\_\_\_\_\_ 160 \_\_\_\_ 3 \_\_\_\_  
 \_\_\_\_\_ 160 \_\_\_\_ 3 \_\_\_\_

### Tier Two

#### Arts

\_\_\_\_\_ 3 \_\_\_\_

#### Humanities

\_\_\_\_\_ 3 \_\_\_\_

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

One course must be taken from the Diversity Emphasis list \_\_\_\_\_

## PRE-MAJOR/FOUNDATION/SUPPORTING COURSEWORK

### Intro Psychology\*\*

PSY 101 (Pre-req for NSCS 200) (F, S, SS) ..... 3 \_\_\_\_

### 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 \_\_\_\_

ECOL 182R (lec) (F, S, SS) **and** ECOL 182L (lab) (F, S) ..... 3 \_\_\_\_ 1 \_\_\_\_

### Physics

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

### Statistics (pre-req for PSY 290A, MATH 263 recommended for pre-med)

MATH 263 **or** PSY 230 ..... 3 \_\_\_\_

### Research Methods

PSY 290A (F, S, SS) ..... 3 \_\_\_\_

### Philosophy

PHIL 241 (F, S, SS) ..... 3 \_\_\_\_

### Clinical Science

PSY 381 **or** 383 (F, S, SS) ..... 3 \_\_\_\_

### Social-Personality Science

PSY 352 **or** 360 (Pre-req for NSCS 200) (F, S, SS)..... 3 \_\_\_\_

\*\*students who took PSY 150A1 or are counting PSY 101 as a general education course will replace this with a PSY elective

## NSCS FOUNDATION FOCUS (MUST MATCH MAJOR FOCUS)

Complete 12 units from one focus (continued in next column)

### 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 \_\_\_\_

CHEM 152 **or** PHYS 103/182 (required for PSYS)..... 4 \_\_\_\_

## NSCS GATEWAY COURSE (APPLY TO MAJOR WHILE ENROLLED)

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

1. Completed MCB 181R/L, CHEM 151, and PSY 101 (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 \_\_\_\_

This course fulfills the Cognitive Neuroscience requirement (PSY 300) for the PSYS pre-major. (NSCS 200 pre-reqs: MCB 181R/L and PSY 101 or 150A1)

## NSCS 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 \_\_\_\_

(NSCS 321 is waived for any student who has completed PSY 300)

## NSCS 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 \_\_\_\_

## PSYS CORE

PSY 389 (Writing Emphasis Course) ..... 3 \_\_\_\_

\*NSCS/PSYS (Directed Research) ..... 3 \_\_\_\_

\*NSCS/PSY/PSYS (Directed Research, Capstone, Honors Thesis) 3 \_\_\_\_

\*NSCS/PSY/PSYS (Directed Research, Capstone, Honors Thesis) 3 \_\_\_\_

\*PSY (400 level) ..... 3 \_\_\_\_

\*PSY (400 level) ..... 3 \_\_\_\_

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\*PSY (400 level) ..... 3 \_\_\_\_

\*Up to 5 of these courses can be fulfilled with your 5 NSCS emphasis courses with the exception of internship or preceptorship credits.

**NSCS EMPHASIS ELECTIVES**

Complete 15 units from one NSCS 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](http://nscs.arizona.edu)

**Cognition**  
**Development & Aging**  
**Neurobiology**

(students who select a different NSCS emphasis cannot double-dip their emphasis courses with PSYS)

<u>Course</u>	<u>Units</u>	
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
<b>Total Units</b>	_____	_____

**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 \_\_\_