

BACHELOR OF SCIENCE IN NEUROSCIENCE & COGNITIVE SCIENCE

| ARIZONA ONLINE | CURRICULUM SHEET | CATALOG YEAR: 2022+

NAME _____ SID _____ EXPECTED GRADUATION DATE _____

GENERAL EDUCATION REQUIREMENTS (36-38 UNITS)

English Composition

ENGL 101 or 1073__
 ENGL 102 or 1083__

Or

ENGL 109H3__

Foundation Mathematics

MATH 122A & 122B1__ + 4__

*Some students may need to take MATH 100 -> MATH 112 -> MATH 120R before taking 122A & B.

Second Language

2nd semester proficiency by credit or exam required

Intro to General Education

UNIV 1011__

Exploring Perspectives

Artist:3__

Humanist:3__

Social Scientist:3__

Natural Scientist (Requirement satisfied by NSCS foundations)

Building Connections

1:3__

2:3__

3:3__

General Education Capstone

UNIV 3011__

NSCS Required Supporting Coursework (23 Units)

MCB 181R & 181L3__ 1__

CHEM 141 & 1453__ 1__

MATH 122A & 122B1__ 4__

MATH 263 or PSY 2303__

PHYS 102 & 1813__ 1__

PHIL 241 or PHIL 3473__

NSCS Core Coursework (14 Units)

NSCS 200 – Fundamentals of Neurosci & CogSci3__

NROS 307 – Cellular Neurophysiology3__

NROS 308 – Methods in Neuroscience1__

NROS 311 – Scientific Programming w/ MATLAB3__

CGSC 320 – Issues & Themes in CogSci3__

CGSC 321 – Methods in CogSci1__

NSCS Focus Options [Choose One] (18 Units)

Neuroscience Focus

CHEM 142 & 1463__ 1__

CHEM 241A & 243A3__ 1__

PHYS 103 & 1823__ 1__

NROS 310 – Mol. & Cell. Bio of Neurons3__

NROS 418 – Fund. Principles in Systems Neuroscience3__

Cognitive Science Focus

CGSC 344 – Modeling the Mind3__

Three Courses from Two Categories :

Cognitive Psychology | Linguistics | Philosophy

1 :3__

2 :3__

3 :3__

Two Courses from Cognition Emphasis:

1 :3__

2 :3__

Emphasis Requirement (15 units)

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.

__ **Cognition** _____
 __ **Neurobiology** _____
 __ **Thematic** _____

University Requirements

120 total units 42 upper division units

2.000 + cumulative GPA 2.000 + major GPA

MCWA complete Final 18/ 30 units complete

30+ total units at UA 18+ NSCS units at UA

Cognitive Science Elective Course Options		
Cognitive Psychology LING 440 - The Bilingual Mind PSY 333 - Judgement and Decision-Making PSY 340 - Intro to Cognitive Development PSY 426 - Advanced Human Memory PSY 429 - Advanced Perception	Linguistics LING 201 - Introduction to Linguistics LING 341- Language Development LING 432 - Psychology of Language LING 449A - Biolinguistics	Philosophy PHIL 202 - Introduction to Symbolic Logic PHIL 346 - Minds, Brains and Computers PHIL 442 - Knowledge and Cognition PHIL 450 - Philosophy of Mind

Emphasis Options	
Cognition ECOL 346 – Bioinformatics ISTA 457 – Neural Networks LING 432 – Psychology of Language LING 440 – The Bilingual Mind NROS 344 – Modeling the Mind: Comp Models of Cognition NROS 412 – Molecular Mechanisms of Learning and Memory NROS 415 – Electrophysiology Lab PHIL 346 – Minds, Brains & Computers PHIL 439 – Decision Theory PSY 300 – Cognitive Neuroscience PSY 313 – Drugs and the Brain or PSY 413 – Drugs, Brain, and Behavior PSY 321 – Brain Rehabilitation PSY 326 – Human Memory PSY 340 – Introduction to Cognitive Development PSY 405 – Developmental Cognitive Neuroscience PSY 412 – Animal Learning PSY 422 – Introduction to Brain Connectivity PSY 433 – Decisions and the Brain PSY 478 – Sleep and Sleep Disorders PSYS 407 – Language and Thought: A Cog. Psych/Neuro Perspective	Neurobiology ECOL 346 – Bioinformatics or ISTA 457 – Neural Networks or NROS 344 – Modeling the Mind: Comp. Models of, Cognition ECOL 487R/L – Animal Behavior w/lab or NROS 381 – Animal Brains, Signals, Sex, and Social Behaviors NROS 330 - Principles of Neuroanatomy: Cells to Systems NROS 412 – Molecular Mechanisms of Learning and Memory NROS 415 – Electrophysiology Lab NROS 420 – Sensing and Action in Predator/Prey Encounters NROS 430 – Neurogenetics NROS 440 – How to Build a Brain: Mech. Of Neural Development PSY 321 – Brain Rehabilitation PSY 313 – Drugs and the Brain or PSY 413 – Drugs, Brain, and Behavior PSY 405 – Developmental Cognitive Neuroscience <hr/> Thematic Students may choose to complete a Thematic Emphasis with courses of their choosing in a given theme. Thematic Emphases must be approved by the student's advisor, and the NSCS Director.