Undergraduate Graduation Requirements

All course work and requirements for this degree must be completed prior to the date the degree is awarded. The University of Arizona requirements to follow in this audit are required for graduation and awarding of the degree.

Curriculum:
1. The University of Arizona and the Arizona Board of Regents have sole discretion over all curricula changes.
2. Courses, programs & requirements may be suspended, deleted, restricted, or changed in any manner, at any time.
3. Students must remain currently informed about all policies & other info that bears on completing a degree.

Required Units:
Additional units will be required to complete this degree if a student:
A) is admitted to the UA with deficiencies;
B) changes his/her academic plan(s);
C) fails to meet minimum course/plan requirements;
D) ineffectively plans or fails to execute a course of study that leads directly to degree completion; or
E) is completing more than one baccalaureate degree.

The following requirements must be met for graduation.

Units Required and Cumulative GPA
120 units are required at a 2.0 GPA. View the pdf report grid for units earned toward this degree and cumulative GPA.

Completing a second bachelor's degree at The University of Arizona requires no fewer than 30 units in addition to the units required for the first degree, and all requirements for the second degree must be met.

Upper Division Units
Not Satisfied: A minimum of 42 units of upper-division credit are required for this degree.

- Units: 42.00 required, 0.00 completed, 42.00 needed

Units in Residence
Not Satisfied: A minimum of 30 units in residence at The University of Arizona (excluding correspondence credit and credit by exam) is required.

- Units: 30.00 required, 0.00 completed, 30.00 needed

Final Units in Residence
Not Satisfied: A minimum of 18 of the final 30 units taken toward degree requirements must be in residence at The University of Arizona.

- Units: 18.00 required, 0.00 completed, 18.00 needed

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Correspondence and/or Exam Credit Limit

**Satisfied:** A maximum of 60 units of Correspondence Credit and/or Exam Credit may apply toward graduation.

Non-Degree Seeking Limit

**A maximum of 15 units completed as a non-degree seeking student may be used for fulfilling undergraduate degree requirements.**

Units exceeding this limit must be subtracted from the units required towards the degree and graduation requirements.

Community College Limit

**Not Satisfied:** A maximum of 64 units of community college course work may apply toward graduation. A minimum of 56 units of course work must be completed at a 4-year institution, military institution, or as test credit.

- **Units:** 56.00 required, 0.00 completed, 56.00 needed

Success Course Limit

**Satisfied:** No more than 3 units will apply toward a student's graduation requirements.

Success Course units exceeding the 3 unit maximum must be subtracted from the total units, residency requirements and cumulative grade point average.

**Foundation Mathematics**

**Not Satisfied:** Foundation Mathematics

**GE Substantial Math Strand**

**Not Satisfied:** GE Substantial Math Strand

**GE Substantial Math Strand**

**Not Satisfied:** Complete 1 course.

- **Units:** 2.67 required, 0.00 completed, 2.67 needed
- **Courses:** 0.00 completed

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**Courses Available**

MATH 124, MATH 125, MATH 125-CC, MATH 250A

**Undergraduate General Education and Foundation Requirements**

*Overall Requirement Not Satisfied: Undergraduate General Education and Foundation Requirements*

**Foundation Composition**

*Not Satisfied: Complete 1 of the 2 following options:*
1. First and Second Semester Composition OR
2. Honors Composition

Mid-Career Writing Assessment - Complete 2nd semester English Composition with a B grade or higher. Students who do not earn a grade of B or better in 2nd semester English Composition must also satisfy a college or department writing requirement. Consult your major advisor if you do not earn a grade of B in 2nd semester English Composition.

**Option 1: First Semester Composition**

*Not Satisfied: Complete 1 course.*

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

**Courses Available**

ENGL 101, ENGL 103H, ENGL 107

**AND Option 1: Second Semester Composition**

*Not Satisfied: AND Complete 1 course*

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

**Courses Available**

ENGL 102, ENGL 104H, ENGL 108

**OR Option 2: Honors Composition**

*Not Satisfied: OR Complete 1 course with a C or better.*

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

**Courses Available**

ENGL 109H
Foundation Second Language - Second Semester Proficiency (R521)

Not Satisfied: Credit will not be given for a course at an equivalent or lower level than prior language credit earned. Course must be taken for a grade, not as pass/fail. Third semester or higher courses used to fulfill this requirement may also be used to fulfill other requirements.

Demonstrate second semester proficiency in a second language by completing a sequence of courses through a second semester or higher level or by passing a language proficiency examination at the second semester level or higher

Second Semester Language Course (R521/L10)

Not Satisfied: Complete 1 course.


• Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available


General Education Tier I (R522)

Overall Requirement Not Satisfied: Complete 2 courses in each of the following areas.

Tier I Individuals & Societies (R522/L10)

Not Satisfied: Fulfillment of Individuals and Societies requires completion of two distinctly numbered courses (e.g., INDV 101 & 103).

• Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

(***) (###)

Tier I Traditions & Cultures (R522/L30)

Not Satisfied: Fulfillment of Traditions and Cultures requires completion of two distinctly numbered courses (e.g., TRAD 102 & 104).

• Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

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General Education Tier II

Overall Requirement Not Satisfied: Complete 1 course from each of the following areas.

Tier II Arts

Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available


Tier II Humanities

Not Satisfied: Prerequisite course work in Tier 1 Traditions and Cultures (TRAD) must be completed prior to taking. If LAT 201 or 202 are used to fulfill Foundation Second Language Proficiency, they cannot be used to fulfill Tier II Humanities.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available


Tier II Individual & Societies

Not Satisfied: Prerequisite course work in Tier 1 Individuals and Societies (INDV) must be completed prior to taking.

- Courses: 1.00 required, 0.00 completed, 1.00 needed
Courses Available


Diversity Emphasis Course (R531)

Not Satisfied: One course must be taken that focuses on Gender, Race, Class, Ethnicity, Sexual Orientation or Non-Western Area Studies.

Courses used to fulfill this requirement may also be used to fulfill other requirements.

Diversity Emphasis Course (R531/L10)

Not Satisfied: General Education Diversity Emphasis Course: Gender, Race, Class, Ethnicity, Sexual Orientation or Non-Western Area Studies

INDV 101 will only fulfill this area if topic taken is “Race, Ethnicity, and the American Dream”.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

Courses Available


Additional Coursework

Courses listed in this section may include general elective credits, UA courses and transferable courses from other institutions. Consult with your advisor to determine if courses listed in this section may be used to fulfill a requirement or sub-requirement in your degree program.

Courses taken for Pass/Fail option can only count as elective credit. They cannot fulfill any General Education, Major, or Minor requirements.

BS in Neuroscience and Cognitive Science

Overall Requirement Not Satisfied: Bachelor of Science in Neuroscience and Cognitive Science
Complete the pre-major, pre-requisites, core courses and one of the following emphasis areas: Communication Science, Computational Neuroscience, Neurobiology, Neuroscience of Aging, or Thematic.

Neuroscience and Cognitive Science Pre-Major

Overall Requirement Not Satisfied: Students will be eligible to apply for the NSCS major when they have (1) Completed (or very nearly completed) the pre-requisite courses with a 2.5 cumulative GPA in Biology and a 2.5 cumulative GPA in Chemistry; (2) Enrolled in or already completed NSCS 200; Fundamentals of Neuroscience and Cognitive Science with a final grade of 3.0. If currently enrolled in NSCS 200 at the time of application, admission to the major will be conditional upon receiving the 3.0 final grade.

1. Chemistry I
   Not Satisfied: Complete 4 units.
   - Units: 4.00 required, 0.00 completed, 4.00 needed

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Courses Available

CHEM 103A, CHEM 103A-CC, CHEM 104A, CHEM 105A, CHEM 106A, CHEM 151, (***) (###)

2. Chemistry II
   Not Satisfied: Complete 4 units.
   Note: Organic Chemistry is not required for the NSCS degree but it is STRONGLY recommended for ALL students who wish to pursue a Neuroscience track within the major. Organic Chemistry IS a Pre-Health requirement and (usually) a Graduate Program requirement. Students who would like to pursue a Cognitive Science track should see the NSCS program coordinator for recommended supplemental courses.
   - Units: 4.00 required, 0.00 completed, 4.00 needed

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Courses Available

CHEM 103B, CHEM 103B-CC, CHEM 104B, CHEM 105B, CHEM 106B, CHEM 152, (***)(###)

3. Introductory Biology I
   Not Satisfied: Complete 4 units.
   · Units: 4.00 required, 0.00 completed, 4.00 needed

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Courses Available

MCB 181L, MCB 181R, MCB 184

4. Introductory Biology II
   Not Satisfied: Complete 4 units.
   · Units: 4.00 required, 0.00 completed, 4.00 needed

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Courses Available

ECOL 182L, ECOL 182R

5. Option I: Introductory Physics
   Not Satisfied: Complete 8 units.
   · Units: 8.00 required, 0.00 completed, 8.00 needed

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Courses Available

PHYS 102, PHYS 102-CC, PHYS 103, PHYS 103-CC, PHYS 181, PHYS 182

OR 5. Option II: Introductory Physics with Calculus
   Not Satisfied: Complete 2 courses.
   · Courses: 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

PHYS 141, PHYS 241

6. Calculus
   Not Satisfied: Complete 1 course.
   - Courses: 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

MATH 124, MATH 125, MATH 125-CC, MATH 250A

7. Statistics
   Not Satisfied: Complete 1 course.
   - Courses: 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

ISTA 116, MATH 263, MATH 263-CC, PSY 230, PSY 230-CC

8. Introductory Psychology
   Not Satisfied: Complete 1 course.
   - Courses: 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

PSY 101, PSY 101-CC, PSY 150A1, PSY 150A1-SA

**Neuroscience and Cognitive Science Major**

Overall Requirement Not Satisfied: Neuroscience and Cognitive Science Major Core Courses

1. Core Courses
   Not Satisfied: Complete 6 courses.
   Select from NSCS 200, NROS 307, NROS 310, NSCS 315, NSCS 320, and PSIO 4## Systems Neurophysiology OR PSIO 464
Courses: 6.00 required, 0.00 completed, 6.00 needed

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**Courses Available**

BIOC 464, MCB 464, NROS 307, NROS 310, NRSC 464, NSCS 200, PSIO 464

2. Core Courses

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

PSY 402

3. Additional Program Requirements

Not Satisfied: Students are required to attend two special lectures during the course of their tenure in the program, one on ethics and one on science policy making, both offered every year. Students are also required to complete a free online course on ethical research conduct, such as the CITI course available at https://www.citiprogram.org/default.asp, for which Arizona is a participating institution. Students should provide documentation of completion of these requirements to the program coordinator, who will indicate completion of the requirements on each student's academic advising report.

Emphasis in Computational Neuroscience

Overall Requirement Not Satisfied: Emphasis in Computational Neuroscience

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Courses Available

CSC 127A, ECE 175, ISTA 130

1. Computing

Not Satisfied: Complete 1 course.

Select from ECE 175, ISTA 130, or CSC 127A.

- Courses: 1.00 required, 0.00 completed, 1.00 needed
2. Option I: Quantitative Foundation

**Not Satisfied:** Complete 1 course.

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

PHYS 141, PHYS 241, MATH 129, MATH 129-CC, MATH 250A, MATH 254, MATH 254-CC, MATH 355, MATH 362

OR 2. Option II: Modeling

**Not Satisfied:** Complete 1 course.

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

ECE 220, ECE 301, PHYS 430, PHYS 431

**Computational Neuroscience Emphasis**

**Not Satisfied:** Complete 12 units, at least two of which are from the same category (Biophysical Modeling, Cognitive Modeling, Data Analysis). A maximum of 6 units may be taken from Directed or Independent Studies (392, 399, 491, 492, 498, 499).

1A. Biophysical Modeling

**Not Satisfied:** Complete 2 courses.

- **Courses:** 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

ATMO 577, ECE 512, MATH 577, NRSC 512, PSIO 472

1B. Additional Units

**Not Satisfied:** Complete 6 units.

A max of 6 units may be taken from NROS, PSY, EEB, MCB, PSIO, SPH* 392, 399, 491, 492, 498, 499. * Other departments may be an option for credit but must be approved by the NSCS Faculty Director.

- **Units:** 6.00 required, 0.00 completed, 6.00 needed

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**Courses Available**

ATMO 577, ECE 512, MATH 577, NRSC 512, PSIO 472, CSC 455, PHIL 455, PSY 444A, PSY 455, BME 417, ECE 417, PSY 496L, MCB 392, MCB 399, MCB 491, MCB 492, MCB 498, MCB 499, NROS 399, NROS 399H, NROS 499, NROS 499H, PSIO 399, PSIO 492, PSIO 499, PSY 399, PSY 491, PSY 498, PSY 499, PSY 499-SA, SPH 392, SPH 399, SPH 492, SPH 498, SPH 499

**OR 2A. Cognitive Modeling**

Not Satisfied: Complete 2 courses.

- **Courses**: 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

CSC 455, PHIL 455, PSY 444A, PSY 455

**2B. Additional Units**

Not Satisfied: Complete 6 units.

A max of 6 units may be taken from NROS, PSY, EEB, MCB, PSIO, SPH* 392, 399, 491, 492, 498, 499. * Other departments may be an option for credit but must be approved by the NSCS Faculty Director.

- **Units**: 6.00 required, 0.00 completed, 6.00 needed

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**Courses Available**

ATMO 577, ECE 512, MATH 577, NRSC 512, PSIO 472, CSC 455, PHIL 455, PSY 444A, PSY 455, BME 417, ECE 417, PSY 496L, MCB 392, MCB 399, MCB 491, MCB 492, MCB 498, MCB 499, NROS 399, NROS 399H, NROS 499, NROS 499H, PSIO 399, PSIO 492, PSIO 499, PSY 399, PSY 491, PSY 498, PSY 499, PSY 499-SA, SPH 392, SPH 399, SPH 492, SPH 498, SPH 499

**OR 3A. Data Analysis**

Not Satisfied: Complete 2 courses.

- **Courses**: 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

BME 417, ECE 417, PSY 496L

**3B. Additional Units**

(R2953/L40)
**Not Satisfied:** Complete 6 units
A max of 6 units may be taken from NROS, PSY, EEB, MCB, PSIO, SPH* 392, 399, 491, 492, 498, 499. * Other departments may be an option for credit but must be approved by the NSCS Faculty Director.

- **Units:** 6.00 required, 0.00 completed, 6.00 needed

### Courses Available

ATMO 577, ECE 512, MATH 577, NRSC 512, PSIO 472, CSC 455, PHIL 455, PSY 444A, PSY 455, BME 417, ECE 417, PSY 496L, MCB 392, MCB 399, MCB 491, MCB 492, MCB 498, MCB 499, NROS 399, NROS 399H, NROS 499, NROS 499H, PSIO 399, PSIO 492, PSIO 499, PSY 399, PSY 491, PSY 498, PSY 499, PSY 499-SA, SPH 392, SPH 399, SPH 492, SPH 498, SPH 499

### Computational Neuroscience Graduation Requirements

**Overall Requirement Not Satisfied:** Computational Neuroscience Graduation Requirements

**Mid Career Writing Assessment**

- **Not Satisfied:** Complete 2nd semester English Composition with a B grade or higher. Students who do not earn a grade of B or higher in 2nd semester English Composition must also satisfy a college or department writing requirement. Consult your major advisor if you do not earn a grade of B or higher in 2nd semester English Composition.

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

### Major Units

- **Not Satisfied:** A minimum of 35 units must be completed in the major.

- **Units:** 35.00 required, 0.00 completed, 35.00 needed

### Major GPA

- **Satisfied:** A minimum 2.0 GPA is required in the major coursework.

- **Units:** 0.00 completed
- **GPA:** 2.000 required, 0.000 completed
Major Upper Division

Not Satisfied: A minimum of 18 units of upper-division major coursework must be completed.

- Units: 18.00 required, 0.00 completed, 18.00 needed

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Major Residency

Not Satisfied: A minimum of 18 units in the major must be taken at the University of Arizona.

- Units: 18.00 required, 0.00 completed, 18.00 needed

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Minor Optional

Satisfied: A minor is optional for this major. Consult with your advisor to select a minor or discuss other options such as selecting a second major.