Academic Advisement Report
UGRD.USCN.C.NCSBS.CPT
Undergraduate Career
College of Science Program
Neuroscience & Cognitive Sci Major (BS)
Computation Emphasis
Requirement Term: Fall 2014

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. 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.

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
A minimum of 18 of the final 30 units taken toward degree requirements must be in residence at The University of Arizona. Consult with your academic advisor if you plan to use transfer credits to fulfill your degree requirements.

Correspondence and/or Exam Credit Limit
Satisfied: A maximum of 60 units of Correspondence Credit and/or Exam Credit may apply toward graduation.
   · Units: 0.00 completed
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 (shown below) 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.
All Success courses taken can be seen below. Success Course units exceeding the 3 unit maximum must be subtracted from the total units, residency requirements and cumulative grade point average.

PE Activity Course Limit
Satisfied: No more than 3 units will apply toward a student's graduation requirements.
All PE activity courses taken can be seen below. PE Activity 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 122B, 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: Select from 1 of the 3 following options:
1. First and Second Semester Composition OR
2. Honors Composition with grade of C or higher OR
3. Honors Composition with a grade of D and Second Semester Composition.

Please note: Students who earn a grade of D in Honors Composition may choose to repeat the course in order to earn a higher grade to satisfy the requirement. Please consult with your major advisor.

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

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Courses Available

ENGL 101, ENGL 101A, ENGL 103H, ENGL 107, ENGL 107A

AND Option 1: Second Semester Composition

Not Satisfied: AND Complete 1 course

· Courses: 1.00 required, 0.00 completed, 1.00 needed

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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

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Courses Available

ENGL 109H

Foundation Second Language - Second Semester Proficiency

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. A grade of C or higher is required in the course that satisfies the second language requirement.

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**

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


- **Courses:** 1.00 required, 0.00 completed, 1.00 needed
- **GPA:** 2.000 required, 0.000 completed

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**Courses Available**


**General Education Tier I**

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

**Tier I Individuals & Societies**

*Not Satisfied:* Fulfillment of Individuals and Societies requires completion of two distinctly numbered courses (e.g., INDV 101 & 103 or PSY 150A1 & ANTH 150B1 or PSY 150A1 & INDV 103).

Only one course may be completed from the 150A options OR INDV 101. Only one course may be completed from the 150B options OR INDV 102. Only one course may be completed from the 150C options OR INDV 103.

INDV 101 = 150A#
INDV 102 = 150B#
INDV 103 = 150C#

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

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**Courses Available**
Tier I Traditions & Cultures

Not Satisfied: Fulfillment of Traditions and Cultures requires completion of two distinctly numbered courses (e.g., TRAD 102 & 104 or AFAS 160A & RSSS 160C1 or TRAD 101 & RSSS 160C1).

Only one course may be completed from the 160A options OR TRAD 101. Only one course may be completed from the 160B options OR TRAD 102. Only one course may be completed from the 160C options OR TRAD 103. Only one course may be completed from the 160D options OR TRAD 104.

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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
## Courses Available

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**Tier II Humanities**  
(R528/L20)  
**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

## Courses Available

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</table>

**Tier II Individual & Societies**  
(R528/L30)  
**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

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Diversity Emphasis Course

**Not Satisfied:** General Education Diversity Emphasis Course: 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.

### Courses Available

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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, major core courses, and an emphasis areas appropriate to either the Neuroscience Track or the Cognitive Science Track.

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.

Select either the Neuroscience or Cognitive Science Track.

Not Satisfied: The NSCS major offers students a choice between two tracks within the major: a Cognitive Science Track and a Neuroscience Track. Each track leads to the same degree (BS in NSCS) and a substantial number of courses are common to both tracks. Students are required to select a track as soon as they are declared in the NSCS pre-major but can easily switch at a later date if they so choose.

Chemistry I
Not Satisfied: Complete 4 units.

- Units: 4.00 required, 0.00 completed, 4.00 needed

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Courses Available
CHEM 151, Approved Transfer Course

Chemistry II
Not Satisfied: Students in the Neuroscience Track must complete 8 units.

- Units: 8.00 required, 0.00 completed, 8.00 needed

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Courses Available
CHEM 152, Approved Transfer Course, CHEM 241A, CHEM 243A

**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, Approved Transfer Course, MCB 184

**Introductory Physics I**

Not Satisfied: Complete 4 units.

Note: Students may complete either PHYS 102 and 181 OR PHYS 141 with lab.

- Units: 4.00 required, 0.00 completed, 4.00 needed

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**Courses Available**

PHYS 102, PHYS 102-CC, PHYS 102-SA, PHYS 181, PHYS 181-SA, PHYS 141

**Introductory Physics II**

Not Satisfied: Students in the Neuroscience Track must complete 4 units.

Note: Students may complete either PHYS 103 and 182 OR PHYS 241 with lab

- Units: 4.00 required, 0.00 completed, 4.00 needed

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**Courses Available**

PHYS 103, PHYS 103-CC, PHYS 182, PHYS 241

**Calculus**

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

MATH 122B, MATH 124, MATH 125, MATH 125-CC, MATH 250A

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

Programming

Not Satisfied: Complete 1 course.

· Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ISTA 130, CSC 127A

Introductory Psychology

Not Satisfied: Complete 2 courses

· Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

PSY 101, PSY 101-CC, (***) (###), PHIL 241, PSY 241

Philosophy and Linguistics

Not Satisfied: Students in the Cognitive Science Track must complete 2 courses.

· Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

LING 202, MATH 202, PHIL 202, LING 201, PSY 201

Neuroscience and Cognitive Science Major Core

Overall Requirement Not Satisfied: The major core consists of 26 units for the Cognitive Science Track and 17 units for the Neuroscience Track.

Core Courses

Not Satisfied: Complete 3 courses.

Note: Students must be enrolled in or have already completed NSCS 200 prior to applying to the major and must have a minimum final grade of 3.0.

- Courses: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

NROS 307, NSCS 200, NSCS 320

Methods

Not Satisfied: Complete 2 courses.

Note: Students must be enrolled in or have already completed NSCS 200 prior to applying to the major and must have a minimum final grade of 3.0.

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

NSCS 315A, NSCS 315B

Additional Core Courses - Neuroscience Track

Not Satisfied: Students in the Neuroscience Track must complete 2 courses.

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

NROS 310, PSIO 465

Additional Core Courses - Cognitive Science Track

Not Satisfied: Students in the Cognitive Science Track must complete PSY 325 and one course from each of the four categories: Cognitive Psychology, Computational Methods, Linguistics and Philosophy.

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

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Courses Available

PSY 325, PSY 325-CC

Cognitive Psychology - Cognitive Science Track

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

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Courses Available

PSY 326, PSY 329, PSY 329-CC, PSY 333, PSY 340, PSY 340-CC

Computational Methods - Cognitive Science Track

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

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Courses Available

ISTA 450

Linguistics - Cognitive Science Track

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

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Courses Available

ENG 322, LING 300, LING 315, LING 322, LING 432, LING 449A, PHIL 432, PHIL 449A, PSY 432, PSY 449A

Philosophy - Cognitive Science Track

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CSC 455, PHIL 442, PHIL 450, PHIL 455, PSY 442, PSY 455

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 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 Computation

Overall Requirement Not Satisfied: Emphasis in Computation

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Emphasis in Computation

Overall Requirement Not Satisfied: Emphasis in Computation

1. Option I: Quantitative Foundation

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, Approved Transfer Work

OR 1. Option II: Quantitative Foundation

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

ECE 220, ISTA 311, MATH 129, MATH 129-CC, MATH 250A, MATH 254, MATH 254-CC, MATH 355, PHYS 431

AND 2. Computation Emphasis

Not Satisfied: Complete 12 units.
A maximum of 6 units of research, internships, preceptorships and thesis credit may be taken. A minimum of 6 units must be in coursework.

- **Units:** 12.00 required, 0.00 completed, 12.00 needed

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Computation Graduation Requirements

Overall Requirement Not Satisfied: Computation 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

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Major Units

Not Satisfied: Students in the Cognitive Science Track must complete a minimum of 54 units in the major.

- **Units:** 54.00 required, 0.00 completed, 54.00 needed

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### Major Units

**Not Satisfied:** Students in the Neuroscience Track must complete a minimum of 35 units in the major.

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

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### 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

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### 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.