Academic Advisement Report
UGRD.USCNC.PRCSND
Undergraduate Career
College of Science Program
Pre-Computer Science Preparation
Requirement Term: Fall 2015

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
Overall Requirement Not Satisfied: Foundation Mathematics

GE Substantial Math Strand
Not Satisfied: Complete 1 course from MATH 124,125,129,223 TO 499.

GE Substantial Math Strand
Not Satisfied: Complete 1 course from MATH 122B,124,125,129,223 TO 499.

- Units: 2.67 required, 0.00 completed, 2.67 needed

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Courses Available
MATH 122B, MATH 124, MATH 125, MATH 125-CC, MATH 129, MATH 129-CC, MATH 215, MATH 223, MATH 223-CC, MATH 254, MATH 254-CC, MATH 313
**GE Moderate Math Strand**

Not Satisfied: GE Moderate Math Strand

**GE Moderate Math Strand**


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

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**Courses Available**

ISTA 116, MATH 109C, MATH 112, MATH 112-CC, MATH 113, MATH 113-CC, MATH 115A, MATH 115B, MATH 116, MATH 120R, MATH 120R-CC, MATH 122B, MATH 124, MATH 125, MATH 125-CC, MATH 129, MATH 129-CC, MATH 163, MATH 163-CC, MATH 263, MATH 263-CC, SBS 200, MATH 112

**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 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
## 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**

**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

## Courses Available


**Foundation Second Language - Fourth 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 for pass/fail.

Demonstrate fourth semester proficiency in a second language by completing one of the following:

1. Complete a Fourth Semester Language Course with a grade of C or higher.
2. Complete Arabic 401 and 1 course with a grade of C of higher from Arabic 424B, 427B or 430B.
3. Pass a language proficiency examination at the fourth semester level

**Option 1: Fourth Semester Language Course**
Not Satisfied: Complete 1 course with a grade of C or better.


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

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

### Courses Available

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**OR Option 2: Arabic Language**

Not Satisfied: Complete ARB 401, Intermediate Arabic, plus one additional course from ARB 424B, 427B, 439B.

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

### Courses Available

- **ARB 401, ARB 401-SA**

**AND Option 2: Additional Arabic Courses**

Not Satisfied: Complete one additional course with a grade of C or better from ARB 424B, 427B, 439B.

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed
Courses Available
ARB 424B, ARB 424B-SA, ARB 427B, ARB 427B-SA, ARB 439B

General Education Tier I
Overview 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 Natural Sciences
Not Satisfied: Fulfillment of Natural Sciences requires completion of two distinctly numbered or lettered courses (e.g., NATS 102 & 104 or GEOG 170A1 & N_SC 170C1 or NATS 102 & N_SC 170C1) for a total of 6 units.

Only one course may be completed from the 170A options OR NATS 101. Only one course may be completed from the 170B options OR NATS 102. Only one course may be completed from the 170C options OR NATS 104.

NATS 101 = 170A#
NATS 102 = 170B#
NATS 104 = 170C#
- Units: 6.00 required, 0.00 completed, 6.00 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 160C2 & 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.

TRAD 101 = 160A#
TRAD 102 = 160B#
TRAD 103 = 160C#
TRAD 104 = 160D#

· Courses: 2.00 required, 0.00 completed, 2.00 needed

## 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


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


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

Tier II Natural Sciences

**Not Satisfied:** Prerequisite course work in Tier 1 (NATS) must be completed prior to taking.

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

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Diversity Emphasis Course

**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.

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Additional Coursework (RG521)

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.

Computer Science Pre-Major (RG976)

Not Satisfied: Computer Science Pre-Major

Computer Science Pre-Major (R1299)

Overall Requirement Not Satisfied: Courses used to fulfill this requirement may also be used to fulfill other requirements.

Due to the dynamic nature of the field of computer science, it is recommended that students see their advisor each semester. Prospective TRANSFER STUDENTS are highly advised to talk to UA advisor well in advance of their planned transfer in order to ensure that they are taking advantage of all possible transfer course options. This will help enable a smooth transition to the UA and a timely graduation.

Admission to the Computer Science major is competitive. Selections for major admission are made early each fall and spring semester. Students will remain in pre-Computer Science standing until they submit a major application and are formally admitted to the major.

1. In order to guarantee admission to the major, a student must have:
   - a minimum of 3.00 UA GPA
   - grades of B or better in all computer science and math courses (calculus or higher) taken at UA or elsewhere
   - at least one programming course completed at the UA
   - a minimum of 24 UA units
   - completed the entire pre-major curriculum
   - each student must have one math course (Calculus I or higher) completed at the UA

2. Apply for admission to the major after completing 24 UA units including the following.

   A note about General Education Requirements:
   The General Education requirements differ for the Computer Science BA and the Computer Science BS. While you are declared in the Computer Science Pre-Major you will see all possible General Education requirements. However, once admitted and declared in to either the BS or BS majors your General Education requirements will adjust accordingly. The General Education requirements for each degree are listed below. Please contact your Computer Science Academic Advisor if you have any questions regarding the General Education requirements:

   Computer Science - Bachelor of Arts: Moderate Math; Composition; Fourth Semester Proficiency Second Language; Tier I
Individuals & Societies, Natural Sciences, and Traditions and Cultures; Tier II Arts, Humanities, Individuals & Societies, and Natural Sciences; Diversity Emphasis Course.

Computer Science - Bachelor of Science: Substantial Math; Composition; Second Semester Proficiency Second Language; Tier I Individuals & Societies and Traditions and Cultures; Tier II Arts, Humanities, and Individuals & Societies; Diversity Emphasis Course.

**Calculus I**

*Not Satisfied:* Complete 1 course. Required for the BS degree.

- **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**

*Not Satisfied:* Complete 1 course. Required for the BA degree.

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

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**Courses Available**

Math 111, MATH 111-CC, MATH 112, MATH 112-CC, MATH 120R, MATH 120R-CC

**Math II**

*Not Satisfied:* Complete 1 course. Required for the BS degree.

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

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**Courses Available**

CSC 245, MATH 129, MATH 129-CC

Option I: Computer Science

*Not Satisfied:* Complete 2 courses.

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

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Courses Available

CSC 127A, CSC 127B

OR Option II: Computer Science

Not Satisfied: Complete 2 courses.

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

CSC 127A, CSC 227

OR Option III: Computer Science

Not Satisfied: Complete 1 course.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CSC 227

Pre-Computer Science Supporting Science Requirement

Overall Requirement Not Satisfied: Complete 2 of the following requirements. NOTE: Courses listed together count as one requirement. Courses used to fulfill this requirement can be used to fulfill other requirements.

1. 1st semester General Chemistry

Not Satisfied: Complete CHEM 151.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CHEM 151, Approved Transfer Course

OR 1. 1st semester Honors General Chemistry

Not Satisfied: Complete CHEM 105A and 106A.

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

CHEM 105A, CHEM 106A

2. 2nd semester General Chemistry
   *(R1309/L10)*
   **Not Satisfied:** Complete CHEM 152.
   - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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**Courses Available**

CHEM 152, Approved Transfer Course

OR 2. 2nd semester Honors General Chemistry
   *(R1309/L20)*
   **Not Satisfied:** Complete CHEM 105B and 106B.
   - **Courses:** 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

CHEM 105B, CHEM 106B

3. Intro Biology II
   *(R1311/L10)*
   **Not Satisfied:** Complete 2 courses.
   - **Courses:** 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**
4. Environmental Biology
   **Not Satisfied:** Complete 1 course.
   
   - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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   **Courses Available**
   
   ECOL 206

5. Intro 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

6. Option I: Introductory Mechanics
   **Not Satisfied:** Complete PHYS 141
   
   - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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   **Courses Available**
   
   PHYS 141

   OR 6. Option II: Introduction to Mechanics
   **Not Satisfied:** Complete PHYS 151
   
   - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

PHYS 151

OR 6. Option III: Honors Introductory Mechanics

Not Satisfied: Complete PHYS 161H

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

PHYS 161H

7. Option I: Introductory Optics and Thermodynamics

Not Satisfied: Complete PHYS 142.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

PHYS 142

OR 7. Option II: Introduction to Thermodynamics and Optics

Not Satisfied: Complete PHYS 152.

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

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Courses Available

PHYS 152

OR 7. Option III: Honors Introductory Optics and Thermodynamics

Not Satisfied: Complete PHYS 162H.

- Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

PHYS 162H

8. Introductory Electricity and Magnetism
   **Not Satisfied:** Complete 1 course.
   - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

PHYS 241

9. Physical Geology
   **Not Satisfied:** Complete 1 course.
   - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

GEOS 251

10. Principles of Stratigraphy and Sedimentation
    **Not Satisfied:** Complete 1 course.
    - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

GEOS 302

11. Structural Geology
    **Not Satisfied:** Complete 1 course.
    - **Courses:** 1.00 required, 0.00 completed, 1.00 needed
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**Courses Available**

GEOS 304

12. Solid State Chemistry

**Not Satisfied:** Complete 1 course.

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

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**Courses Available**

MSE 110