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 intend 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.
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. 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 from MATH 124,125,129,223 TO 499.

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

MATH 122B, MATH 124, MATH 125, MATH 125-CC, MATH 129, MATH 129-CC, MATH 215, MATH 223, MATH 223-CC, MATH 250A, MATH 254, MATH 254-CC

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

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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

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.

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.


- Courses: 1.00 required, 0.00 completed, 1.00 needed

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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 160A1 & 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.

- Courses: 2.00 required, 0.00 completed, 2.00 needed

Courses Available


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

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

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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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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.

Diversity Emphasis Course

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

Courses:

1.00 required, 0.00 completed, 1.00 needed

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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.
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

2. 2nd semester General Chemistry
   Not Satisfied: Complete CHEM 152.
   - Courses: 1.00 required, 0.00 completed, 1.00 needed

Courses Available

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2. 1st semester Honors General Chemistry
   Not Satisfied: Complete CHEM 105A and 106A.
   - Courses: 2.00 required, 0.00 completed, 2.00 needed

2. 2nd semester Honors General Chemistry
   Not Satisfied: Complete CHEM 105B and 106B.
   - Courses: 2.00 required, 0.00 completed, 2.00 needed

Courses Available

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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

### Courses Available

**ECOL 182L, ECOL 182R**

4. **Environmental Biology**  
   *(R1312/L10)*  
   **Not Satisfied:** Complete 1 course.  
   - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

### Courses Available

**ECOL 206**

5. **Intro Biology I**  
   *(R1315/L10)*  
   **Not Satisfied:** Complete 4 units.  
   - **Units:** 4.00 required, 0.00 completed, 4.00 needed

### Courses Available

**MCB 181L, MCB 181R, 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

**BS in Computer Science**

**Overall Requirement Not Satisfied:** Bachelor of Science in Computer Science

**Computer Science Pre-Major**

**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
   - at least one math course (Calculus I or higher) completed at the UA

   Students who do not qualify for automatic admission should contact the department advisor.

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

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

      | Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
      |------|---------|-------------|--------------|-------|-------|-------|-------|------|

      **Courses Available**

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

   2. **Math II**
      
      **Not Satisfied:** Complete 1 course.
      
      - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

      | Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
      |------|---------|-------------|--------------|-------|-------|-------|-------|------|

      **Courses Available**

      CSC 245, MATH 129, MATH 129-CC

   3. **Option I: Computer Science**
      
      **Not Satisfied:** Complete 2 courses.
      
      - **Courses:** 2.00 required, 0.00 completed, 2.00 needed

      | Term | Subject | Catalog Nbr | Course Title | Grade | Units | RptCd | RqDes | Type |
      |------|---------|-------------|--------------|-------|-------|-------|-------|------|

      **Courses Available**

      CSC 127A, CSC 127B

   OR 3. **Option II: Computer Science**
      
      **Not Satisfied:** Complete 2 courses.


**Courses Available**

CSC 127A, CSC 227

**OR 3. Option III: Computer Science**

*Not Satisfied:* Complete 1 course.

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

**Courses Available**

CSC 227

**Computer Science Major**

*Overall Requirement Not Satisfied:* Equivalent COSV courses may be available through UA South. For approved courses consult with your advisor.

1. **Option A: Introductory Computer Science**

*Not Satisfied:* Complete 2 courses.

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

**Courses Available**

CSC 127A, CSC 127B

**OR 1. Option B: Introductory Computer Science**

*Not Satisfied:* Complete 1 course.

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

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**Courses Available**
CSCB5

2. Core Mathematics
   
   Not Satisfied: Complete 1 course.
   
   · Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

MATH 129, MATH 129-CC, MATH 215

3. Major Core Curriculum
   
   Not Satisfied: Complete 4 courses.
   
   · Courses: 4.00 required, 0.00 completed, 4.00 needed

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Courses Available

CSC 252, CSC 335, CSC 345, CSC 352

4. Introduction to Discrete Structures
   
   Not Satisfied: Complete 1 course.
   
   · Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CSC 245, MATH 243, MATH 243-CC

5. Paradigms Area Elective
   
   Not Satisfied: Complete 1 course.
   
   · Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available
6. Theory and Writing Area Elective
   (R1300/L70)
   **Not Satisfied:** Complete 1 course.
   - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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CSC 437, CSC 445, CSC 473

7. Systems Area Elective
   (R1300/L80)
   **Not Satisfied:** Complete 1 course.
   - **Courses:** 1.00 required, 0.00 completed, 1.00 needed

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CSC 452, CSC 453

8. Electives
   (R1300/L90)
   **Not Satisfied:** Complete 2 courses.
   - **Courses:** 2.00 required, 0.00 completed, 2.00 needed

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**Computer Science Major Graduation Requirements**
**Overall Requirement Not Satisfied:** Computer Science Major 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 40 units must be completed in the major.

- Units: 40.00 required, 0.00 completed, 40.00 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 Residency
Not Satisfied: A minimum of 18 units in the pre-major, supporting coursework, professional core, and/or major must be taken at the University of Arizona.

- Units: 18.00 required, 0.00 completed, 18.00 needed

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.