Undergraduate Graduation Requirements

All coursework 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) Candidates for a second bachelor's degree at The University of Arizona with a different award date than the first must earn no fewer than 30 units of University Credit in addition to the units required for the first degree, and must meet all requirements for the second 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
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: Complete 1 course.

GE Substantial Math Strand
Not Satisfied: Complete 1 course.

- Units: 2.67 required, 0.00 completed, 2.67 needed

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Courses Available
MATH 122B, MATH 125, MATH 129, MATH 215, MATH 223, MATH 254, MATH 313

Undergraduate General Education and Foundation Requirements
Overall Requirement Not Satisfied: Undergraduate General Education and Foundation Requirements
Foundation Composition (R532)

Not Satisfied: Complete 1 of the following 4 Foundation Composition options:
1. 3 Course Foundation Composition Sequence
2. 2 course Foundation Composition sequence
3. Honors Composition with grade of C or higher
4. 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: Foundation Composition - 3 Course Sequence (R532/L10)


- Courses: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

ENGL 101, ENGL 101A, ENGL 107, ENGL 107A, ENGL 102, ENGL 108, ENGL 106

OR Option 2: Foundation Composition - 2 Course Sequence (R532/L20)

Not Satisfied: Complete 2 courses. Complete ENGL 101/107 AND ENGL 102/108

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

ENGL 101, ENGL 101A, ENGL 107, ENGL 107A, ENGL 102, ENGL 108

OR Option 3: Honors Composition (R532/L40)

Not Satisfied: 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**


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

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**Courses Available**

AIS 104B, AIS 307B, ARB 102, CHN 102, CRL 102, CRL 197A, FREN 102, FREN 112, GER 102, GRK 102, GRK 104, ITAL 102, ITAL 102Z, JPN 102, JUS 103B, LAT 102, LING 104B, LING 307B, MENA 103B, PORT 102, PRS 102, RSSS 102, SERP 370B, SPAN 102, SPAN 103, TURK 102

**General Education Tier I**

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

**Tier I Individuals & Societies**

**Not Satisfied:** Complete 2 courses, 6 units total. Transfer students with quarter system credits may satisfy Tier One requirements with 2 courses and 5.34 units.

- **Units:** 5.34 required, 0.00 completed, 5.34 needed
- **Courses:** 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

(***) (###), AFAS 150B1, ANTH 150B1, ART 150B1, ART 150B2, EDP 150B1, ENGL 150B1, ESOC 150B1, FREN 150B1, FSHD 150B1, FTV 150B1, GEOG 150B1, GER 150B1, GWS 150B1, GWS 150B2, GWS 150B3, GWS 150B4, GWS 150B5, HNRS 150B1, HNRS 150B2, ITAL 150B1, LAR 150B1, LAS 150B1, MAS 150B1, MAS 150B2, MIS 150B1, PA 150B1, PHIL 150B1, POL 150B1, RCSC 150B1, RCSC 150B2, RELI 150B1, RSSS 150B1, RSSS 150B2, SOC 150B1, SOC 150B2, SPAN 150B1, SPAN 150B2, TLS 150B1, AED 150A1, ANTH 150A1, ART 150A1, GER 150A1, HUMS 150A1, HNRS 150A1, LING 150A1, MIS 150A1, PHIL 150A1, POL 150A1, PSY 150A1, AED 150C1, AREC 150C1, AEC 150C2, ECON 150C1, GEOG 150C1, HIST 150C1, HIST 150C2, HIST 150C3, HIST 150C4, HIST 150C5, HIST 150C6, HNRS 150C1, HPS 150C1, JOUR 150C1, MAS 150C1, MENA 150C1, NSE 150C1, PHIL 150C1, PLP 150C1, POL 150C1, POL 150C2, POL 150C3, RNR 150C1, SOC 150C1, SOC 150C2, TURK 150C1

**Tier I Traditions & Cultures**

**Not Satisfied:** Transfer students with quarter system credits may satisfy Tier One requirements with 2 courses and 5.34 units.

- **Units:** 5.34 required, 0.00 completed, 5.34 needed
- **Courses:** 2.00 required, 0.00 completed, 2.00 needed

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Page 4 of 15
### General Education Tier II

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

**Tier II Arts:**  
*Not Satisfied:* Complete 1 course, 3 units total. Transfer students with quarter system credits may satisfy Tier Two requirements with 2.67 units.

- **Units:** 2.67 required, 0.00 completed, 2.67 needed
- **Courses:** 1.00 required, 0.00 completed, 1.00 needed

### Courses Available

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### General Education Tier II

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

**Tier II Humanities:**  
*Not Satisfied:* Complete 1 course, 3 units total. Transfer students with quarter system credits may satisfy Tier Two requirements with 2.67 units. 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.

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


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
**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 Pre-Major & Supporting Coursework**

Overall Requirement Not Satisfied: Computer Science Pre-Major & Supporting Coursework

**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 prior to the beginning of each fall and spring semester after final grades are posted for the previous semester. Students will remain in pre-Computer Science standing until they meet major admission requirements and are formally admitted to the major.

In order to guarantee admission to the major, a student must have:
- a cumulative UA GPA of 2.4 or higher
- GPA of 3.0 or higher in best attempts at CSC 120, 245 (or MATH 243 or MATH 323), & 210 taken at the UA or elsewhere
- GPA of 2.0 or higher in all attempts at CSC courses (excluding GRO 1st attempts) taken at the UA
- at least two programming courses completed at the UA

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

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 BA 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.

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

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Courses Available

CSC 110

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

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Courses Available

CSC 120

3. 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

Software Development
   Not Satisfied: Complete 1 course.
   - Courses: 1.00 required, 0.00 completed, 1.00 needed
Courses Available

CSC 210

Computer Science Supporting Mathematics Coursework

Not Satisfied: Computer Science Supporting Mathematics Coursework

1. Core Mathematics

Not Satisfied: Students in the Computer Science BS must complete 1 course.

· Courses: 1.00 required, 0.00 completed, 1.00 needed

Courses Available

MATH 129, MATH 313

Computer Science Supporting Science Coursework

Overall Requirement Not Satisfied: Students seeking a BS in Computer Science must complete 2 of the following requirements. Courses used to fulfill this requirement can be used to fulfill other requirements.

Chemistry I

Not Satisfied: Complete 4 units.

· Units: 4.00 required, 0.00 completed, 4.00 needed

Courses Available

CHEM 151, Approved Transfer Course, CHEM 105A, CHEM 106A

Chemistry II

Not Satisfied: Complete 4 units.

· Units: 4.00 required, 0.00 completed, 4.00 needed
Courses Available

CHEM 152, Approved Transfer Course, CHEM 105B, CHEM 106B

Physics I

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

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Courses Available

PHYS 102, PHYS 141, PHYS 161H, PHYS 181, Approved Transfer Coursework

Physics II

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

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Courses Available

PHYS 103, PHYS 182, PHYS 241, PHYS 261H, Approved Transfer Coursework

Physics II - Option II

Not Satisfied: Complete 3 units.
- Units: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

PHYS 142

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

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, Approved Transfer Course

Other Supporting Science Options I

Not Satisfied: Complete 3 units.

- Units: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

ASTR 337, ECOL 206, GEOS 251, GEOS 255, GEOS 308, MSE 110, PSIO 201, PSIO 202

Other Supporting Science Options II

Not Satisfied: Complete 3 units. Coursework used in Other Supporting Science Options I cannot be used for this requirement.

- Units: 3.00 required, 0.00 completed, 3.00 needed

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Courses Available

ASTR 337, ECOL 206, GEOS 251, GEOS 255, GEOS 308, MSE 110, PSIO 201, PSIO 202

BS in Computer Science

Overall Requirement Not Satisfied: Bachelor of Science in Computer Science

Computer Science Major

Overall Requirement Not Satisfied: Equivalent COSV courses may be available through UA South. For approved courses consult with your advisor. Up to three approved courses from another department may be used toward the Computer Science BS Major Requirements. Only one approved course from another department may be used toward the Major Open Electives Requirement. For approved courses consult with your advisor.
1. Computer Science I
   Not Satisfied: Complete 1 course.

   - Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CSC 110

2. Computer Science II
   Not Satisfied: Complete 1 course.

   - Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CSC 120

3. Software Development
   Not Satisfied: Software Development

   - Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CSC 210

4. 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

5. 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 323

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

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Courses Available

CSC 372, CSC 422, CSC 460

7. Theory and Writing Area Elective  
   Not Satisfied: Complete 1 course.
   - Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CSC 437, CSC 445, CSC 450, CSC 473

8. Systems Area Elective  
   Not Satisfied: Complete 1 course.
   - Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CSC 452, CSC 453

9. Electives
Not Satisfied: Complete 2 courses.

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

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Courses Available


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

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**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

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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

Major Upper Division

Not Satisfied: A minimum of 18 units of upper division 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 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

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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.