Academic Advisement Report
UGRD.USCNC.MATHBA.COMSCI
Undergraduate Career
College of Science Program
Mathematics Major (BA)
Computer Science Emphasis
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
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,
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
Registration Information

**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 or 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

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Courses Available


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

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Courses Available
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

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Courses Available

ARB 424B, ARB 424B-SA, ARB 427B, ARB 427B-SA, ARB 439B

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 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

### 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

### 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

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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

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### 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

### 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.

- 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.

BA in Mathematics

Overall Requirement Not Satisfied: Bachelor of Arts in Mathematics

Common requirements for the BA in Mathematics, including completion of: Core Mathematics courses.

Equivalent MATV courses may be available through UA South. For approved courses consult with your advisor.

Math Major Core Requirements

Overall Requirement Not Satisfied: Math Major Core Requirements

Calculus I

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

Introduction to Computer Science

Not Satisfied: Complete 1 course.

Either CSC 127A or ISTA 130 is recommended for most students. This alternative group of courses may require prior programming experience, additional prerequisites, and/or a major or minor declared in another subject.

· Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CSC 127A, ISTA 130

Alternative Computer Science Course

Not Satisfied: Complete 1 course. Either CSC 127A or ISTA 130 is recommended for most students. This alternative group of courses may require prior programming experience, additional prerequisites, and/or a major or minor declared in another subject.

· Courses: 1.00 required, 0.00 completed, 1.00 needed

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Courses Available

CSC 227, ECE 175, MIS 301, MSE 350, PHYS 305

Core Courses

Not Satisfied: Complete 5 courses.

· Courses: 5.00 required, 0.00 completed, 5.00 needed

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Courses Available

MATH 129, MATH 129-CC, MATH 223, MATH 223-CC, MATH 313, MATH 323, MATH 355, MATV 355

Option in Computer Science Mathematics

Overall Requirement Not Satisfied: Option in Computer Science Mathematics
Equivalent MATV courses may be available through UA South. For approved courses consult with your advisor.

You must complete 1 of the following:
Computer Science Minor
Computer Science Major
Computer Science Major (Secondary)

Computer Science Option Requirements

Overall Requirement Not Satisfied: Computer Science Option Requirements

Option 1: Abstract Algebra
Not Satisfied: Complete MATH 415A and MATH 415B

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

MATH 415A, MATH 415B

OR Option 2: Probability and Statistics
Not Satisfied: OR Complete MATH 464 and MATH 466

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

MATH 464, MATH 466

OR Option 3: Numerical Analysis
Not Satisfied: OR Complete MATH 475A and MATH 457B

- Courses: 2.00 required, 0.00 completed, 2.00 needed

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Courses Available

MATH 475A, MATH 475B

Electives
Not Satisfied: Complete 2 courses
- **Courses**: 2.00 required, 0.00 completed, 2.00 needed

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**Courses Available**

CSC 473, MATH 413, MATH 443, MATH 445, MATH 446, MATH 447

**Advisor Approved Course**

*Not Satisfied*: Complete one 400-level MATH course, to be selected with approval from your math faculty advisor.

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

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**Computer Science Math Option Graduation Requirements**

**Overall Requirement Not Satisfied**: Computer Science Math Option 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 GPA**

*Not Satisfied*: A minimum 2.0 GPA is required in the major coursework.

- **GPA**: 2.000 required, 0.000 completed

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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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**Major 400-level Upper Division** *(R1154L30)*

*Not Satisfied:* A minimum of 15 units of 400-level upper-division major coursework must be completed.

- **Units:** 15.00 required, 0.00 completed, 15.00 needed

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**Minor Required** *(R115599)*

*Not Satisfied:* A minor is required for this major.

You must complete 1 of the following:
- Computer Science Minor
- Computer Science Major
- Computer Science Major (Secondary)