Academic Advisement Report
UGRD.USCN.MATHBA.COMSCI
Undergraduate Career
College of Science Program
Mathematics Major (BA)
Computer Science Emphasis
Requirement Term: Fall 2019

MAIN Campus at TUCSON Location

This emphasis is for students interested in applications of computers to mathematical problems, and of mathematics to computer science. It is a good choice for math majors who plan to attend graduate school in computer science or work in jobs related to computation. A minor or second major in Computer Science is required.

**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 their 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.
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.

Non-Community College Units
Not Satisfied: Non-Community College Units: While there is no limit to the total number of units of course work that may be transferred from an accredited community college to The University of Arizona, no more than 64 units from a 2-year institution may be applied toward the requirements for a bachelor's degree. Therefore, to reach the required 120 units for a bachelor's degree, a minimum of 56 units must be completed from 1) coursework at a 4-year institution, 2) approved credit by examination (refer to UA Catalog for approved examinations and scores), or 3) any combination thereof.

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: 0.00 completed

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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**

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**


- 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**

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**

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 - 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

AIS 204B, ARB 402, CHN 202, CHN 301, CHN 302, CHN 415, CHN 417, CHN 422, CHN 423, CRL 202, CRL 202-SA, CRL 301, CRL 301-SA, CRL 302, CRL 397A, CRL 497A, FREN 202, FREN 212, FREN 301, FREN 302, FREN 320, FREN 410, FREN 420, GER 202, GER 211, GER 301, GRK 202, GRK 204, GRK 212, GRK 402, GRK 412, GRK 424, ITAL 202, ITAL 202Z, ITAL 301, ITAL 302, ITAL 310, ITAL 320, JPN 202, JPN 301, JPN 302, JPN 405, JPN 421, JPN 422, JUS 203B, LAS 330, LAS 381, LAS 425, LAS 481, LAS 482, LAT 202, LAT 212, LAT 400, LAT 401, LAT 405, LING 204B, MAS 381, MAS 481, MAS 482, MENA 203B, PHIL 412, PORT 350, PORT 425, PRS 402, PRS 403, PRS 404, RSSS 202, RSSS 301, RSSS 302, RSSS 308, SERP 431B, SPAN 202, SPAN 203, SPAN 206, SPAN 251, SPAN 253, SPAN 323, SPAN 325, SPAN 330, SPAN 333, SPAN 381, SPAN 399, SPAN 425, SPAN 450, SPAN 481, SPAN 482, TURK 402, TURK 403, TURK 404

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

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
### General Education Tier I

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

#### Tier I Individuals & Societies/150s

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**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

#### Tier I Natural Sciences/170s

**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

## Courses Available

**General Education Tier I**: Complete each of the following areas.

1. **Tier I Individuals & Societies/150s**

2. **Tier I Natural Sciences/170s**
   - ASTR 170A1, ATMO 170A1, BE 170A1, BE 170A2, CHEE 170A1, CHEM 170A1, ENVS 170A1, GC 170A1, GEN 170A1, GEOG 170A1, GEOS 170A1, HNRS 170A1, HNRS 170A1, MCB 170C1, NSC 170C1, MCB 170C1, NSC 170C1, NSC 170C2, NSCS 170C1, PLS 170C1, PLS 170C2, PLS 170C3, RNR 170C1
Tier I Traditions & Cultures/160s

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


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

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Courses Available

AFAS 218, AFAS 318, AFAS 371, ANTH 318, ARC 304, ARC 325, ARE 130, ARH 201, ARH 202, ARH 203, ARH 312, ARH 314, ARH 315, ARH 316A, ARH 316B, ARH 319, ARH 320, ARH 321, ARH 322, ARH 324, ARH 325, ARH 329, ART 203, ART 242, ART 329, ART 358, CLAS 310, CLAS 329, DNC 100, DNC 101, DNC 112A, DNC 112B, DNC 112C, DNG 144A, DNG 144B, DNG 144C, DNG 152A, DNG 152B, DNG 152C, DNG 175, DNG 176A, DNG 176B, DNG 177C, DNG 177D, DNG 200, DNG 276A, ENGL 201, ENGL 209, ENGL 210, ENGL 300, ENGL 300, FTV 252, FTV 352, FTV 375, HNRS 203H, HNRS 216, HNRS 218, HNRS 220, HNRS 222, ISTA 301, JPN 245, LAS 322, LAS 337, MAS 337, MUS 100, MUS 101A, MUS 107, MUS 108, MUS 109, MUS 206, MUS 231, MUS 328, MUS 334, MUS 337, MUS 344, MUS 360, RELI 227, RELI 345, TAR 100, TAR 103, TAR 303, (***) (###)

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

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Courses Available


Tier II Individual & Societies

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 Individuals and Societies (INDV) must be completed prior to taking.

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

Courses Available

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


Tier II Natural Sciences

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 (NATS) must be completed prior to taking.

- 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:** 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

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### Diversity Emphasis Course

- **Courses:** 1.00 required, 0.00 completed, 1.00 needed
**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: Will appear fully satisfied when student satisfies Mathematics Supporting Computer Science, Math Major Core Requirements, and selects an emphasis. All emphases require a minimum of 15 units of 400-level coursework in the major.

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

**Mathematics Supporting Computer Science**

Satisfied: Will appear fully satisfied when student satisfies Computer Science requirements.

Computer Science

Not Satisfied: Complete 1 course. Consult your advisor for a list of alternative programming courses.

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

- Courses: 1.00 required, 0.00 completed, 1.00 needed

**Courses Available**

CSC 110, ISTA 130

**Math Major Core Requirements**

Overall Requirement Not Satisfied: Will appear fully satisfied when student satisfies Calculus I and Core Courses.

Calculus I

Not Satisfied: Complete 1 course

- Courses: 1.00 required, 0.00 completed, 1.00 needed

**Courses Available**

MATH 122B, MATH 125

Core Courses

Not Satisfied: Complete 5 courses. Credit allowed for only one course in each pair: MATH 313 or MATV 313, MATH 323 or MATV 323, MATH 355 or MATV 355. MATV courses are only available to UA South students.

- Courses: 5.00 required, 0.00 completed, 5.00 needed
Courses Available

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

Emphasis in Computer Science Mathematics

Overall Requirement Not Satisfied: Will appear fully satisfied when student satisfies Computer Science Emphasis course requirements, Graduation Requirements, and declares a minor in Computer Science.

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

Computer Science Emphasis Requirements

Overall Requirement Not Satisfied: Will appear fully satisfied when student satisfies one of the sequences listed below, two of the electives, and one advisor approved course.

Option 1: Abstract Algebra

Not Satisfied: Complete MATH 415A and MATH 415B

· Courses: 2.00 required, 0.00 completed, 2.00 needed

Courses Available

MATH 415A, MATH 415B

Option 2: Probability and Statistics

Not Satisfied: OR Complete MATH 464 and MATH 466

· Courses: 2.00 required, 0.00 completed, 2.00 needed

Courses Available

MATH 464, MATH 466

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 in consultation with your math faculty advisor. You may choose from the pre-approved list. If you prefer to select another course, you may do so ONLY if approved by your math faculty advisor.

**Units**: 3.00 required, 0.00 completed, 3.00 needed

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**Courses Available**

CSC 401A, CSC 401B, CSC 473, DATA 468, MATH 401A, MATH 401B, MATH 402, MATH 413, MATH 415A, MATH 443, MATH 445, MATH 446, MATH 447, MATH 464, MATH 468, MATH 475A, MATH 485, PHIL 401A, PHIL 401B

**Major 400-level Upper Division**

**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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Computer Science Math Emphasis Graduation Requirements

Overall Requirement Not Satisfied: Will appear fully satisfied when student satisfies Mid Career Writing Assessment, Major GPA, Residency requirement, and Major Upper Division unit requirement.

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

Satisfied: A minimum 2.0 GPA is required in the major coursework.

- GPA: 2.000 required, 0.000 completed

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Major Units

Not Satisfied: A minimum of 34 units must be completed in the major.

- Units: 34.00 required, 0.00 completed, 34.00 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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### 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

### Minor Required

**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)