# Bachelor of Science in Mathematics

**Name:** ______________________________________  **Student ID:** _______________________

## Core Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>MATH 129</td>
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<tr>
<td>MATH 223</td>
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<td>MATH 323</td>
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<tr>
<td>MATH 355</td>
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<tr>
<td>MATH 122A &amp; B or 125</td>
<td>MATH 313^3</td>
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</tbody>
</table>

## Options

### General/Applied*

- MATH 422
- MATH 485

One of the following sequences:
- MATH 454 & 456
- MATH 464 & 466
- MATH 475A & 475B

Fifth 400-level course^4

### Computer Science^8

One of the following sequences:
- MATH 415A & 415B
- MATH 443
- MATH 445
- MATH 446
- MATH 447
- CSC 473

### Comprehensive*

- MATH 413
- MATH 424
- MATH 425A & 425B

One of the following sequences:
- MATH 415A & 415B
- MATH 454 & 456

### Economics or Business^5

- MATH 425A
- MATH 426

Two of the following:
- MATH 413
- MATH 425B
- MATH 466
- MATH 468

Fifth 400-level course^4

### Life Sciences^9

- MATH 422
- MATH 464
- MATH 485
- MATH 454 or 456
- MATH 466 or 468

### Probability & Statistics*

- MATH 425A
- MATH 464 & 466
- MATH 413 or 488
- MATH 468

Fifth 400-level course^4

### Application Courses^6

### Education^7

- MATH 315
- MATH 330
- MATH 361
- MATH 404
- MATH 407
- MATH 205

### Probability & Statistics*

- STCH 310 (or EDP 301)
- SERP 301B
- TLS 416 & 417
- TLS 435
- MATH 406A & 406B
- MATH 494C

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1 The Bachelor of Science degree requires second-semester proficiency in a second language and a two-semester lab science sequence. Upper division (300-400 level) units: 42 required. See Advisement Report (ADVIP) for details.

2 These courses are recommended for most math majors. Other courses that can be used are: CSC 227, ECE 175, MIS 301, MSE 350, and PHYS 355. These latter courses may have additional eligibility criteria.

3 MATH 313 replaces MATH 215 as of fall semester 2015. Students who completed MATH 215 prior to fall 2015 or who have transfer credit equivalent to MATH 215 will still fulfill this requirement, though they will not earn upper-division credit for the course.

4 This 400-level course is to be selected with approval from your math faculty advisor; the advisor should either email approval to the Math Center to be marked in the advisement report or list it on the degree check form. At least 15 units of 400-level MATH course work are required for the major.

5 The Economics/Business option requires an Economics, Finance, or Business Administration minor, or a Thematic minor with an Economics, Finance, or Business Administration emphasis (approved by your major advisor).

6 For the BS degree, except for the Education option, students must complete six units of course work outside the Mathematics Department, approved by the major advisor requiring Calculus or higher math course as pre-requisite or co-requisite. See ADVIP for a list of courses that fulfill this requirement. Courses taken to fulfill other requirements of the degree may also be applied to this requirement.

7 The Teaching and Learning Mathematics courses within this option replace the minor requirement. No additional minor is required.

8 The Computer Science option requires a Computer Science minor.

9 The Life Sciences option requires a minor in a Life Sciences area.

*All options except Education require a minor; the General/Applied, Comprehensive, and Probability & Statistics options allow a minor in any subject. The minor should be selected in consultation with faculty advisor. Double-dipping between the math major and a minor is NOT permitted, with the one exception of the introductory programming course, which may also be used in a minor. Double majors are not required to have a minor. If pursuing a double degree, consult with your major advisor regarding UA requirements.