# Bachelor of Arts in Mathematics

**Catalog: 2017-2018**

Name: ________________________________  Student ID: ______________________

<table>
<thead>
<tr>
<th>CORE COURSES</th>
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<tr>
<td>_____ MATH 122A &amp; B or 125</td>
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<td>_____ MATH 129</td>
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<td>_____ MATH 223</td>
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<tr>
<td>_____ MATH 313³</td>
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<td>_____ MATH 323</td>
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<td>_____ MATH 355</td>
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**SUPPORTING PROGRAMMING COURSE:**  _____ CSC 110 or ISTA 130²

## Emphases

**Comprehensive**⁴

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

One of the following sequences:

- _____ MATH 415A & 415B
- _____ MATH 454 & 456

**Applied**⁴

- _____ MATH 422
- _____ MATH 485

One of the following sequences:

- _____ MATH 454 & 456
- _____ MATH 464 & 466
- _____ MATH 475A & 475B

Fifth 400-level course⁸

**Computer Science**⁵

One of the following sequences:

- _____ MATH 415A & 415B
- _____ MATH 464 & 466
- _____ MATH 475A & 475B

Two of the following courses:

- _____ MATH 413
- _____ MATH 443
- _____ MATH 445
- _____ MATH 446
- _____ MATH 447

_____ CSC 473

Fifth 400-level course⁸

**Economics or Business**⁶

- _____ MATH 425A
- _____ MATH 464

Two of the following courses:

- _____ MATH 413
- _____ MATH 425B
- _____ MATH 466
- _____ MATH 468

Fifth 400-level course⁸

**Education**⁹

- _____ MATH 315
- _____ MATH 330
- _____ MATH 361
- _____ MATH 404
- _____ MATH 407
- _____ MATH 205
- _____ EDP 301
- _____ SERP 400
- _____ TLS 416
- _____ TLS 435
- _____ MATH 406A & 406B
- _____ MATH 494C

**Life Sciences**⁷

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

**Probability & Statistics**⁴

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

Fifth 400-level course⁸

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⁴MINOR REQUIREMENT

Most minors require 18 units, of which 9 are upper division.

Minor Courses:

<table>
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<th>Subject/Course number</th>
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⁵The Bachelor of Arts degree requires fourth-semester proficiency in a second language. Science: 2 Tier One and 1 Tier Two NATS (Natural Science) courses fulfill the science requirement. Upper division (300-400 level) units: 42 required. See Advisement Report (ADVIP) for details.

⁶These courses are recommended for most math majors. Other courses that can be used are: CSC 127A or 227, ECE 175, MIS 301, MSE 350, and PHYS 305. These latter courses may have additional eligibility criteria. MATH 313 replaced 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. All emphases except Education require a minor; the General/Applied, Comprehensive, and Probability & Statistics emphases 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.

⁷The Computer Science emphasis requires a Computer Science minor.

⁸The Economics/Business emphasis requires an Economics, Finance, or Business Administration minor, or a Thematic minor with an Econ, Finance, or Business Admin emphasis (approved by your advisor). The Life Sciences emphasis requires a minor in a Life Sciences area. 400-level course is to be selected with approval from your math faculty advisor. See handbook for pre-approved list. At least 15 units of 400-level MATH course work are required for the major.

⁹The pedagogy courses within the Mathematics Education emphasis replace the minor requirement. No additional minor is required.