## **MATH MINOR REQUIREMENTS**

(2015-2018 catalogs)\*

Minimum units required: 18 total, 6 upper-division, 3 at UA

Minimum minor GPA: 2.00 Course Work Requirements:

1. Complete both (AP credit is OK):

o MATH 122A/B\*\* or 125: Calculus I

o MATH 129: Calculus II

2. Choose two courses from:

o MATH 223: Vector Calculus

o MATH 243: Discrete Mathematics in Computer Science

o MATH 254<sup>†</sup>: Introduction to Ordinary Differential Equations

o MATH 355†: Analysis of Ordinary Differential Equations

3. Complete one linear algebra course:

MATH 313<sup>‡</sup>: Introduction to Linear Algebra

MATH 310<sup>‡</sup>: Applied Linear Algebra

4. Choose one additional upper-division course from the following; at least six upper-division units required: MATH 315, 322, 323, 330, 361, 362, 363, 367<sup>††</sup>, 368, 396T, 401A, 401B, 402, 404, 407, 413, 415A, 415B, 422, 424, 425A, 425B, 432, 443, 445, 446, 447, 454, 456, 462, 464, 466, 468, 475A, 475B, 485, 488, 496T, 498, 498H, ECOL 480, or equivalent UA South courses, iCourses, or officially cross-listed courses.

To add the Math minor, please send your request using the online form at <a href="http://math.arizona.edu/academics/undergrads/advising/minor">http://math.arizona.edu/academics/undergrads/advising/minor</a>

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<sup>\*</sup>For previous catalogs, see <a href="http://math.arizona.edu/academics/undergrads/majors">http://math.arizona.edu/academics/undergrads/majors</a>

<sup>\*\*</sup>MATH 122A and 122B are a single-semester sequence that cover Calculus I. They are equivalent to the old MATH 124 course, which is no longer offered.

<sup>&</sup>lt;sup>†</sup> MATH 254 and 355 count as duplicate credit; only one of the two courses may be used toward minor requirements. Note that 355 does not count in part 4 of the minor.

TMATH 313 has replaced 215; MATH 310 has replaced 410. Either MATH 313 or 310 may be used to complete part 3 of the minor and fulfills upper-division unit requirements in the minor. Students with transfer credit for MATH 215 can use this credit to complete part 3 of the minor, but will need an additional upper-division course (6 units upper-division required). Students with credit for MATH 410 can use this credit in the same way that 310 may be used.

<sup>††</sup> MATH 367 is a new course as of Spring 2018. It will not automatically appear in your advisement report to fulfill minor requirements – please email the Math Center if you wish to use it so we can adjust your record.

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