BACHELOR OF SCIENCE in Mathematics[1] **Catalog: 2017-2018**

Name: _____ Student ID: _____

CORE COURSES

_____ MATH 122A & B or 125
_____ MATH 129
_____ MATH 223
_____ MATH 313[3]
_____ MATH 323
_____ MATH 355

SUPPORTING PROGRAMMING COURSE: _____ CSC 110 or ISTA 130[2]

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 course[8]
_____ MATH _____

[4]MINOR Requirement

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

	Subject/Course number
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

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 course[8]
_____ MATH _____

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 course[8]
_____ MATH

Economics or Business[6]

_____ MATH 425A
_____ MATH 464
Two of the following courses:
_____ MATH 413
_____ MATH 425B
_____ MATH 466
_____ MATH 468
Fifth 400-level course[8]
_____ MATH _____

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

APPLICATION COURSES*

_____ _____
_____ _____

[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 127A or 227, ECE 175, MIS 301, MSE 350, and PHYS 305. These latter courses may have additional eligibility criteria. [3]MATH 313 replaced MATH 215 as of fall semester 2015. Students who completed 215 prior to fall 2015 or who have transfer credit equivalent to 215 will still fulfill this requirement, though they will not earn upper-division credit for the course. [4]All emphases except Education require a minor; the 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. [5]The Computer Science emphasis requires a Computer Science minor. [6]The 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). [7]The Life Sciences emphasis requires a minor in a Life Sciences area. [8]This 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. [9]The pedagogy courses within this emphasis replace the minor requirement. No additional minor is required. *For the BS degree, except for the Education emphasis, students must complete six units of course work outside the Mathematics Department, approved by the major advisor requiring Calculus or higher 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.