BACHELOR OF SCIENCE in Mathematics

Name: ____________________________      Student ID: _________________

CORE COURSES

_____ MATH 122A & B or 125  _____ MATH 223  _____ MATH 323

_____ MATH 129    _____ MATH 313  _____ MATH 355

SUPPORTING PROGRAMMING COURSE:  _____ CSC 110 or ISTA 130

EMPHASES

Comprehensive

_____ MATH 413
_____ MATH 424
_____ MATH 425A & 425B
One of the following sequences:
_____ MATH 415A & 415B
_____ MATH 454 & 456

Applied

_____ MATH 422
_____ MATH 485
One of the following sequences:
_____ MATH 454 & 456
_____ MATH 464 & 466
_____ MATH 475A & 4XX

Fifth 400-level course

_____ MATH

4MINOR REQUIREMENT

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

Minor Courses: Subject/Course number

_____ MATH

Computer Science

One of the following sequences:
_____ MATH 415A & 415B
_____ MATH 464 & 466
_____ MATH 475A & 4XX

Two of the following courses:
_____ MATH 413
_____ MATH 443
_____ MATH 445
_____ MATH 447
_____ CSC 473

Fifth 400-level course

_____ MATH

Economics or Business

_____ MATH 425A
_____ MATH 464

Two of the following courses:
_____ MATH 413
_____ MATH 425B
_____ MATH 462
_____ MATH 466
_____ MATH 468

Fifth 400-level course

_____ MATH

Education

_____ MATH 315
_____ MATH 330
_____ MATH 361
_____ MATH 404
_____ MATH 407
_____ MATH 205
_____ EDP 301
_____ SERP 400
_____ LCEV 408 or TLS 416
_____ TOLS 435
_____ MATH 406A & 406B
_____ MATH 494C

Life Sciences

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

Probability & Statistics

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

Fifth 400-level course

_____ MATH

APPLICATION COURSES*

_____ MATH

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*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. **These courses are recommended for most math majors. Other courses that can be used are: CSC 120, 127A, or 227, ECE 175, MIS 301, and PHYS 305. These latter courses may have additional eligibility criteria. "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. "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. Double majors are not required to have a minor. If pursuing a double degree, consult with your major advisor regarding UA requirements. "The Computer Science emphasis requires a Computer Science minor. "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). A double major in Personal & Family Fin Planning may also fulfill the requirement. "The Life Sciences emphasis requires a minor in a Life Sciences area. "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. "The pedagogy courses within this emphasis replace the minor requirement. No additional minor is required. "A variety of courses are available to complete the numerical analysis sequence. Consult your advisor. "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 Advisement Report 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.

BSMATH2020-2021.6/1/2020