Date Submitted: 05/23/19 9:17 am

Viewing: **MATH-M : Mathematics Minor**

Last approved: 05/22/19 11:33 am

Last edit: 05/28/19 10:07 am

Changes proposed by: markj

Catalog Pages Using
this Program
   Mathematical Sciences (MASC)

Submitter:	User ID:	**markj** ~~mattclay~~	Phone:	**575-3351** ~~575-5195~~

Program Status	Active
Academic Level	Undergraduate
Type of proposal	Minor

Select a reason for this modification
Making Minor Changes to an Existing Degree (e.g. changing 15 or fewer hours, changing admission/graduation requirements, adding/changing Focused Study or Track)

Effective Catalog Year	Fall 2020
College/School Code	Fulbright College of Arts and Sciences (ARSC)
Department Code	Department of Mathematical Sciences (MASC)
Program Code	MATH-M
Degree	Minor

CIP Code
   27.0101 - Mathematics, General.

Program Title
   Mathematics Minor

Program Delivery
Method
   On Campus

	Is this program interdisciplinary?
No	
	Does this proposal impact any courses from another College/School?
No	
What are the total hours needed to complete the program?	16-19

In Workflow

1. ARSC Dean Initial
2. **Director of Program Assessment and Review**
3. **Registrar Initial**
4. **Institutional Research**
5. **MASC Chair**
6. **ARSC Curriculum Committee**
7. **ARSC Dean**
8. **Global Campus**
9. **Provost Review**
10. **University Course and Program Committee**
11. Faculty Senate
12. Provost Final
13. Provost's Office-- Notification of Approval
14. Registrar Final
15. Catalog Editor Final

Approval Path

1. 05/23/19 12:09 pm Jeannine Durdik (jdurdik): Approved for ARSC Dean Initial
2. 05/28/19 10:07 am Alice Griffin (agriffin): Approved for Director of Program Assessment and Review
3. 06/05/19 7:51 pm Lisa Kulczak (lkulcza): Approved for Registrar Initial
4. 06/06/19 8:51 am Gary Gunderman (ggunderm): Approved for

Program Requirements and Description

Requirements

History

1. Mar 21, 2016 by mattclay
2. May 17, 2016 by Lisa Kulczak (lkulcza)
3. May 22, 2019 by Mark Johnson (markj)

Requirements for a Minor in Mathematics

A grade of C or better in the following courses:

MATH 2564	Calculus II (ACTS Equivalency = MATH 2505)	4
MATH 2603	Discrete Mathematics	3
or MATH 2803	Transition to Advanced Mathematics	
or MATH 4423	Introduction to Partial Differential Equations	
or MATH 3583	Foundations of Applied Mathematics	
3 courses selected from the following:		9-12
MATH 2574	Calculus III (ACTS Equivalency = MATH 2603)	
MATH 2584	Elementary Differential Equations	
STAT 3013	Introduction to Probability	
Any MATH Courses at the 3000-level or higher.		
Total Hours		16-19

8-Semester Plan

Are Similar Programs available in the area?

No

Estimated Student   75
Demand for Program

Scheduled Program   NA
Review Date

Program Goals and
Objectives

Program Goals and Objectives
The program serves students majoring in natural sciences and engineering by introducing them to the mathematical tools and practices prevalent in STEM fields. The program serves majors from any field by highlighting the utility of mathematics, broadening analytical skills and increasing quantitative reasoning abilities.
Students graduating with a minor in Mathematics have demonstrated to potential employers and graduate schools a deeper understanding of mathematics then their fellow graduates.

Learning Outcomes

Learning Outcomes
A student earning a minor in mathematics will have a thorough understanding of Calculus, and will have been introduced to several advanced mathematical topics. Among the topics the student will see include: set theory and combinatorics, proof techniques, or Fourier analysis and partial differential equations. Further topics are the choice of the student.

Description and justification of the request

Description of specific change	Justification for this change
Added MATH 3583 as optional course in the required sequence.	MATH 3583 is a new course to the program, that is of particular interest to science and engineering majors. This change makes the math minor more easily attainable for this group of students.

Upload attachments

Reviewer Comments

Key: 406