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 macleay 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

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

https://nextcatalog.uark.edu/programadmin/
<table>
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<th>Date</th>
<th>Time</th>
<th>Approver</th>
<th>Action</th>
<th>Description</th>
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<td>06/05/19</td>
<td>7:51 pm</td>
<td>Lisa Kulczak</td>
<td>Approved</td>
<td>for Registrar Initial</td>
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<tr>
<td>06/06/19</td>
<td>8:51 am</td>
<td>Gary Gunderman</td>
<td>Approved</td>
<td>for Institutional Research</td>
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<td>06/23/19</td>
<td>4:28 pm</td>
<td>Mark Johnson</td>
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<td>for MASC Chair</td>
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<tr>
<td>09/05/19</td>
<td>11:20 am</td>
<td>Ryan Cochran</td>
<td>Approved</td>
<td>for ARSC Curriculum Committee</td>
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<td>09/05/19</td>
<td>11:27 am</td>
<td>Jeannie Hulen</td>
<td>Approved</td>
<td>for ARSC Dean</td>
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<td>09/09/19</td>
<td>4:49 pm</td>
<td>Suzanne Kenner</td>
<td>Approved</td>
<td>for Global Campus</td>
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<td>09/10/19</td>
<td>4:08 pm</td>
<td>Terry Martin</td>
<td>Approved</td>
<td>for Provost Review</td>
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<td>09/30/19</td>
<td>5:01 pm</td>
<td>Alice Griffin</td>
<td>Approved</td>
<td>for University Course and Program Committee</td>
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Program Requirements and Description

Requirements

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)
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 than their fellow graduates.

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

<table>
<thead>
<tr>
<th>Description of specific change</th>
<th>Justification for this change</th>
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<tr>
<td>Added MATH 3583 as optional course in the required sequence.</td>
<td>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.</td>
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Reviewer Comments