Program Change Request

Date Submitted: 02/03/17 10:01 am

Viewing: **MATHBA : Mathematics, Bachelor of Arts**

Last approved: 05/16/16 12:30 pm

Last edit: 02/13/17 12:07 pm

Changes proposed by: markj

In Workflow

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

Approval Path

1. 02/13/17 11:08 am jdurdik: Approved for ARSC Dean Initial
2. 02/13/17 12:07 pm agriffin: Approved for Director of Program Assessment and Review
3. 02/16/17 4:47 pm lkulcza: Approved for Registrar Initial
4. 02/16/17 6:16 pm markj: Approved for MASC Chair
5. 04/12/17 11:42 am

fspiegel: Approved for ARSC Curriculum Committee
6. 04/12/17 11:59 am jdurdik: Approved for ARSC Dean
7. 04/21/17 11:29 am kbible: Approved for Global Campus

History

1. Aug 15, 2014 by crsleaf1
2. Jun 10, 2015 by calison
3. May 16, 2016 by mattclay

Catalog Pages Using this Program	Mathematics B.A. Mathematical Sciences (MASC)

Submitter:	User ID: crsleaf1 Phone: 575-6731
Academic Level	Undergraduate
Select a reason for the proposed change:	Making Minor Changes to an Existing Degree (e.g. changing 15 or fewer hours, changing admission/graduation requirements, adding Focused Study)
Program Status	Active
Academic Unit	Major/Field of Study

Are you adding, changing or deleting a concentration? No

Action	Proposed Code	Proposed Name

Are you adding, changing or deleting a track? No

Action	Proposed Code	Proposed Name

Are you adding, changing or deleting a focused study? No

Action	Proposed Code	Proposed Name

Effective Catalog Year	Fall **2017** ~~2016~~
College, School, Division	Fulbright College of Arts and Sciences (ARSC)
Department Code	Department of Mathematical Sciences (MASC)
Program Code	MATHBA
Degree	Bachelor of Arts
CIP Code	27.0101 - Mathematics, General.
Program Title	Mathematics, Bachelor of Arts
Method of Delivery	On Campus
Is this program interdisciplinary or use courses from another College?	No
Does this change the total hours needed to complete the program?	No

Program Requirements, Description and 8-Semester Plan

Requirements for a Major in Mathematics, B.A. Degree: Students must complete 120 degree credit hours to include the minimum University Core requirements, the Fulbright College of Arts and Sciences Graduation Requirements, and the following course requirements. Bolded courses from the list below may be applied to portions of the University Core requirements.

Eight hours from the following science courses:		8
ANTH 1013 & ANTH 1011L	Introduction to Biological Anthropology (Sp, Su) and Introduction to Biological Anthropology Laboratory (Fa)	
ASTR 2003 & ASTR 2001L	Survey of the Universe (ACTS Equivalency = PHSC 1204 Lecture) (Sp, Su, Fa) and Survey of the Universe Laboratory (ACTS Equivalency = PHSC	

	1204 Lab) (Sp, Su, Fa)	
BIOL 1543 & BIOL 1541L	Principles of Biology (ACTS Equivalency = BIOL 1014 Lecture) (Sp, Su, Fa) and Principles of Biology Laboratory (ACTS Equivalency = BIOL 1014 Lab) (Sp, Su, Fa)	
BIOL 1603 & BIOL 1601L	Principles of Zoology (ACTS Equivalency = BIOL 1054 Lecture) (Su, Fa) and Principles of Zoology Laboratory (ACTS Equivalency = BIOL 1054 Lab) (Su, Fa)	
BIOL 1613 & BIOL 1611L	Plant Biology (ACTS Equivalency = BIOL 1034 Lecture) (Sp, Su) and Plant Biology Laboratory (ACTS Equivalency = BIOL 1034 Lab) (Sp, Su)	
BIOL 2013 & BIOL 2011L	General Microbiology (ACTS Equivalency = BIOL 2004 Lecture) (Sp, Su, Fa) and General Microbiology Laboratory (ACTS Equivalency = BIOL 2004 Lab) (Sp, Su, Fa)	
CHEM 1103 & CHEM 1101L	University Chemistry I (ACTS Equivalency = CHEM 1414 Lecture) (Su, Fa) and University Chemistry I Laboratory (ACTS Equivalency = CHEM 1414 Lab) (Sp, Su, Fa)	
CHEM 1123 & CHEM 1121L	University Chemistry II (ACTS Equivalency = CHEM 1424 Lecture) (Sp, Su, Fa) and University Chemistry II Laboratory (ACTS Equivalency = CHEM 1424 Lab) (Sp, Su, Fa)	
GEOS 1113 & GEOS 1111L	General Geology (ACTS Equivalency = GEOL 1114 Lecture) (Sp, Su, Fa) and General Geology Laboratory (ACTS Equivalency = GEOL 1114 Lab) (Sp, Su, Fa)	
GEOS 1133 & GEOS 1131L	Earth Science (ACTS Equivalency = GEOL 1124 Lecture) (Sp, Fa) and Earth Science Laboratory (ACTS Equivalency = GEOL 1124 Lab) (Sp, Fa)	
PHYS 2054	University Physics I (ACTS Equivalency = PHYS 2034) (Sp, Su, Fa)	
PHYS 2074	University Physics II (ACTS Equivalency = PHYS 2044 Lecture) (Sp, Su, Fa)	
An approved course with substantial programming experience, typically satisfied by CSCE 2004. Other courses may be applied towards this requirement with prior departmental approval.		3-4
Completion of a minor other than in Mathematics or Statistics, completion of the UAteach curriculum, completion of an additional major or completion of the Four-Year Fulbright Honors Core for a Bachelor of Arts. Hours required will vary.		15-30+

Major Course Requirements

MATH 2574	Calculus III (ACTS Equivalency = MATH 2603) (Sp, Su, Fa) (MATH 2554 and MATH 2564 are prerequisites)	4
MATH 2803	Transition to Advanced Mathematics (Sp, Fa)	3
MATH 3093	Abstract Linear Algebra (Sp, Fa)	3
MATH 3113	Introduction to Abstract Algebra I (Sp, Fa)	3
MATH 3513	Elementary Analysis (Sp, Fa)	3
MATH 4933	Mathematics Major Seminar (Sp) ( )	3

Twelve semester hours of courses in mathematics selected from MATH 2584, CSCE 4133 or MATH and STAT courses numbered at the 3000-level or higher.	12
The completion of a senior writing project under the direction of a faculty member. This is typically carried out in MATH 4933, or is satisfied by an honors thesis.	
It is recommended that MATH 2803 be taken as early as possible in the program.	

Mathematics B.A.

Eight-Semester Degree Program

Students wishing to follow the eight-semester degree plan should see the Eight-Semester Degree Policy for university requirements of the program. Core requirement hours may vary by individual, based on placement and previous credit granted. Once all core requirements are met, students may substitute a three-hour (or more) general elective in place of a core area.

First Year	**Units**	
	Fall	**Spring**
ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013) (Sp, Su, Fa)	3	
MATH 2554 Calculus I (ACTS Equivalency = MATH 2405) (Sp, Su, Fa)[1]	4	
Fine Arts or humanities University/state core requirement	3	
Social Science University/State Core requirement	3	
General Elective or coursework to be applied towards minor (as needed)	3	
ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023) (Sp, Su, Fa)		3
MATH 2564 Calculus II (ACTS Equivalency = MATH 2505) (Sp, Su, Fa)[1]		4
MATH 2803 Transition to Advanced Mathematics (Sp, Fa)[1]		3
General elective or coursework to be applied towards minor (as needed)		4
Year Total:	16	14

Second Year	**Units**	
	Fall	**Spring**
MATH 2574 Calculus III (ACTS Equivalency = MATH 2603) (Sp, Su, Fa)[1]	4	
MATH 3093 Abstract Linear Algebra (Sp, Fa)[1,2]	3	
Social science University/State Core requirement	3	
U.S. History University/State Core requirement	3	
General Elective or coursework to be applied towards minor (as needed)	3	
CSCE 2004 Programming Foundations I (Sp, Fa)		4
MATH/STAT Elective above 3000 level[1,2]		3
Science University/State Core Lecture with Corequisite Lab requirement		4
Humanities or fine arts University/State Core requirement (as needed)		3
Year Total:	16	14

Third Year	Units	
	Fall	Spring
MATH 3113 Introduction to Abstract Algebra I (Sp, Fa)[1,2]	3	
Social Science University/State Core requirement	3	
Science University/State Core Lecture with Corequisite Lab requirement	4	
General Electives or coursework to be applied towards minor (as needed)	6	
MATH 3513 Elementary Analysis (Sp, Fa)[1,2]		3
MATH/STAT Elective above 3000 Level[1,2]		3
General Electives or coursework to be applied towards minor (as needed)		9
Year Total:	16	15

Fourth Year	Units	
	Fall	Spring
MATH/STAT Elective Above 3000 level[1,2]	6	
General Elective or coursework to be applied towards minor (as needed)	3	
3000-4000 Level Electives[1]	6	
MATH 4933 Mathematics Major Seminar (Sp)[1,2]		3
MATH/STAT Elective Above 3000 Level[1,2]		3
General Electives As Needed		8
Year Total:	15	14

Total Units in Sequence:	120

[1] Meets 40-hour advanced credit hour requirement. See College Academic Regulations.

[2] Meets 24-hour rule (24 hours of 3000-4000 level courses in Fulbright College), in addition to meeting the 40-hour rule. See College Academic Regulations.

Are Similar Programs available in the area?	No
Estimated Student Demand for Program:	NA
Scheduled Program Review Date:	NA
Program Goals and Objectives:	NA
Learning Outcomes:	NA

Description and justification of the request:	We propose to allow CSCE 4133 (Algorithms) to count as an elective to fulfill the 12 semester hours of 3000+ MATH/STAT (including MATH 2584).
Program reviewer comments	**agriffin (02/13/17 12:07 pm):** Changed effective catalog year from fall 2016 to fall 2017.
Uploaded attachments:	

Key: 47