

Date Submitted: 05/06/19 10:40 am

Viewing: **MATHBS-MATH3 : Mathematics:****Statistics Concentration**

Last approved: 04/02/18 10:32 am

Last edit: 11/09/19 3:32 pm

Changes proposed by: markj

Catalog Pages Using

this Program

[Mathematics B.S., Option 3 \(Statistics\)](#)[Mathematical Sciences \(MASC\)](#)

Submitter: 575-5195 User ID: crsleaf1 Phone:

Program Status Active

Academic Level Undergraduate

Type of proposal Major/Field of Study

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)

Are you adding a concentration?

No

Are you adding or modifying a track?

No

Are you adding or modifying a focused study?

No

Effective Catalog Year Fall 2020

College/School Code

Fulbright College of Arts and Sciences (ARSC)

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. 05/06/19 11:45 am
Jeannine Durdik (jdurdik): Approved for ARSC Dean Initial
2. 05/06/19 1:18 pm
Alice Griffin (agriffin): Approved for Director of Program

Department Code

Department of Mathematical Sciences (MASC)

Program Code

MATHBS-MATH3

Degree

Bachelor of Science

CIP Code

Assessment and
Review

3. 06/05/19 7:52 pm
Lisa Kulczak
(lkulcza): Approved
for Registrar Initial
4. 06/06/19 8:51 am
Gary Gunderman
(ggunderm):
Approved for
Institutional
Research
5. 06/23/19 4:28 pm
Mark Johnson
(markj): Approved
for MASC Chair
6. 11/06/19 11:49 am
Ryan Cochran
(rcc003): Approved
for ARSC Curriculum
Committee
7. 11/06/19 3:13 pm
Jeannie Hulen
(jhulen): Approved
for ARSC Dean
8. 11/06/19 4:03 pm
Suzanne Kenner
(skenner): Approved
for Global Campus
9. 11/08/19 7:38 am
Terry Martin
(tmartin): Approved
for Provost Review
10. 11/22/19 4:28 pm
Alice Griffin
(agriffin): Approved
for University
Course and Program
Committee

History

1. Aug 15, 2014 by Leepfrog Administrator (clhelp)
2. May 16, 2016 by mattclay
3. Apr 2, 2018 by Gina Daugherty (gdaugher)

27.0101 - Mathematics, General.

Program Title

Mathematics: Statistics Concentration

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? **19** ~~na~~

Program Requirements and Description

Requirements

Concentration 3 (Statistics)

A program for the student who wishes to emphasize statistics or who intends to study statistics at the graduate level. Requirements:

MATH 4353	Numerical Linear Algebra	3
<u>STAT 3013</u>	Introduction to Probability	3
or <u>STAT 5103</u>	Introduction to Probability Theory	
<u>STAT 3113</u>	Introduction to Mathematical Statistics	3

STAT 4003	Statistical Methods	3
STAT 4001L	Statistics Methods Laboratory	1
or STAT 4101L	Introduction to R	
STAT 4033	Nonparametric Statistical Methods	3
Two MATH or STAT electives numbered 3000 or higher (students may also take CSCE 4133).		6

~~Strongly recommended electives in this program are STAT 5103 and STAT 5113.~~

Total Hours 19

A 2.00 cumulative grade-point average on all work completed in the department of mathematical sciences will be required for graduation with a B.A. or B.S. degree.

8-Semester Plan

Mathematics, B.S., Concentration 3 (Statistics)

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
	FallSpring
ENGL 1013 Composition I (ACTS Equivalency = ENGL 1013)	3
MATH 2554 Calculus I (ACTS Equivalency = MATH 2405)1	4
Science University/State Core lecture with corequisite lab requirement	4
Social Science University/State Core requirement	3
ENGL 1023 Composition II (ACTS Equivalency = ENGL 1023)	3
MATH 2564 Calculus II (ACTS Equivalency = MATH 2505)1	4
MATH 2803 Transition to Advanced Mathematics1	3
Science University/State Core lecture w/ corequisite lab requirement	4
Year Total:	14 14
Second Year	Units
	FallSpring
MATH 2574 Calculus III (ACTS Equivalency = MATH 2603)1	4
MATH 3093 Abstract Linear Algebra1,2	3
CSCE 2004 Programming Foundations I	4
General elective or coursework, as needed	4
MATH 2584 Elementary Differential Equations1,2	4
STAT 3013 Introduction to Probability1,2	3
U.S. History University/State Core requirement	2

U.S. History University/State Core requirement	3
Fine Arts or Humanities University/State Core requirement, as needed	3
General elective or coursework, as needed	3
Year Total:	15 16

Third Year	Units
	FallSpring
MATH 3113 Introduction to Abstract Algebra I,2	3
STAT 4001L Statistics Methods Laboratory	1
or STAT 4101L Introduction to R	
STAT 4003 Statistical Methods1,2	3
Social Science University/State Core requirement	3
General Electives or coursework, as needed	6
MATH 4353 Numerical Linear Algebra1,2	- 3
MATH or STAT Elective numbered 3000 or higher.1,2	3
STAT 3113 Introduction to Mathematical Statistics	3
Social Science University/State Core requirement	3
General Electives or coursework, as needed	6
Year Total:	16 15

Fourth Year	Units
	FallSpring
MATH 4513 Advanced Calculus I,2	3
STAT 4033 Nonparametric Statistical Methods1,2	3
Humanities or Fine Arts University/State Core requirement, as needed	3
General Electives or coursework to be applied towards minor, as needed	6
MATH 4933 Mathematics Major Seminar1,2	3
MATH or STAT Elective numbered 3000 or higher1,2	3
General Electives or coursework, as needed to meet 120 hour requirement	9
Year Total:	15 15

Total Units in Sequence: 120

Are Similar Programs available in the area?

No

Estimated Student NA

Demand for Program

Scheduled Program [see MATHBS NA](#)

Review Date

Program Goals and Objectives

Program Goals and Objectives

see MATHBS ~~NA~~

Learning Outcomes

Learning Outcomes

see MATHBS ~~NA~~

Description and justification of the request

Description of specific change	Justification for this change
Replace MATH 4353 with STAT 3113	The new course STAT 3113 is more relevant for Statistics concentration MATH BS majors.

Upload attachments

Reviewer Comments

Alice Griffin (agriffin) (05/06/19 1:17 pm): Changed catalog effective date from fall 2019 to fall 2020. It is too late to complete the approval process for the catalog deadline.

Key: 410