FACULTY AGENDA ITEM

Date: November 20, 2023

Submitted by: Cherry Steffen x1943

SUBJECT: Program Revisions: Bachelor of Education/ Middle Grades STEM

Description: Proposal for Bachelor of Education degree changes/ Middle Grades STEM

Summary of Changes:

- 1) Deleted MA 230
- 2) Deleted MA 381 and replaced it with MA 281
- 3) Deleted PS 318 and EG 320 and replaced with PS XXX (elective) and another physics or engineering elective
- 4) Deleted ED 321
- 5) Added MA 200 and MA 201
- 6) Replaced ED 420 with ED 415 (middle school student teaching instead of elementary school)
- 7) Deleted EN 101 and EN 300

Rationale:

- 1) Math changes were made due to changes in the math courses required for all middle level math education programs.
- 2) MA 381 has been replaced with MA 281 change in math requirement
- 3) PS 318 and EG 320 are not currently offered due to low numbers in the program. These will be replaced with acceptable replacements unless they are offered.
- 4) ED 321 is required for elementary education majors only.
- 5) Changes in the middle level mathematics education requirements
- 6) Middle Level Student Teaching (ED 415) is required. This replaces the ED 420 elementary level student teaching course.
- 7) Changes due to General Education revisions.

Financial Implications: No additional costs are anticipated.

Proposed Effective Date: Fall 2024

Request for Action: Approval by AAC/FS/ Gen Fac, etc

Approved by: *AAC on 11/27/2023*

Faculty Senate on date

Attachments Yes X No □

Program Change Request

Date Submitted: 11/07/23 4:07 pm

Viewing: ED-MG-STEM: Bed in Middle Grades STEM Ed

Last approved: 06/20/23 3:31 pm

Last edit: 11/28/23 1:01 pm

Changes proposed by: Cherry Steffen (cherry.steffen)

Middle Grades STEM, BEd

Catalog Pages Using

this Program

Change Type <u>Significant</u>

Summarize Changes and $Format\ of\ degree\ requirements\ were\ changed\ in\ accordance\ with\ catalog\ standardization$

efforts.

Include Rationale Summary of Changes:

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level student teaching course.

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General Information

Effective Catalog

2024-2025

Edition

Department

Education

College School of Applied Studies

Degree Level Undergraduate

Program Title Bed in Middle Grades STEM Ed

Degree to be Offered Bachelor of Education (BED)

Is this program

online?

offered completely

Does this program

Yes

lead to a teaching certification?

Program Code

ED-MG-STEM

Is this program an interdisciplinary program?

No

In Workflow

- 1. Acad Ops
- 2. ED Chair
- 3. Library
- 4. SAS Curr Policy Chair
- 5. SAS Dean
- 6. SAS Fac Council

Chair

- 7. Governance Check 8. AA Committee
- 9. Faculty Senate
- 10. General Faculty
- 11. WUBOR
- 12. Final Acad Ops
- 13. Registrar

Approval Path

- 1. 11/07/23 4:39 pm Beth ONeill (beth.oneill):
 - Approved for Acad
 - Approved for Acad Ops
- 2. 11/08/23 10:21 am Cherry Steffen
 - (cherry.steffen):
- Approved for ED
- 3. 11/08/23 11:40 am Sean Bird
- (sean.bird):
- Approved for Library
- 4. 11/14/23 2:09 pm Michelle Shipley (michelle.shipley): Approved for SAS
- Curr Policy Chair
 5. 11/17/23 3:33 pm
 Zach Frank
- (zach.frank): Approved for SAS
- 6. 11/17/23 4:11 pm Michelle Shipley
- (michelle.shipley): Approved for SAS
- Fac Council Chair
- 7. 11/17/23 4:34 pm Holly Broxterman
 - (holly.broxterman): Approved for
- Governance Check
- 8. 11/28/23 1:01 pm Holly Broxterman (holly.broxterman):
- Approved for AA
 Committee

CIP Code <u>12.1213</u> - <u>12.1213</u> Modality

Admission and Curriculum

Admission Criteria

Total Number of Semester Credit Hours for the

Degree Curriculum History

- 1. Apr 21, 2022 by clmig-jwillging
- 2. Oct 26, 2022 by Holly Broxterman (holly.broxterman)
- 3. Jun 20, 2023 by Holly Broxterman (holly.broxterman)

In addition to the requirements stated below, students must complete 34-35 hours of General Education, all requirements for a Bachelor of Education degree, and any additional hours needed to reach the minimum 120 credit hours required for graduation. Some of the courses below may also fulfill general education or other degree requirements.

Degree Requirements		
Required Courses Insi	de Department	
Pre-Admission Profess	sional Education Courses	
ED 155	Teaching, Learning, Leadership	<u>3</u>
ED 285	Educational Psychology	<u>3</u>
Post-Admission CORE	Education Courses	
ED 165	Ed. 1, Examining Teaching as a Profession: Diversity 1, Literacy 1, Technology 1 $^{\mathrm{1}}$	3
ED 275	Ed. 2 Exploring Teaching as a Profession (Classroom Management 1, Diversity 2, Technology 2) Ed. 2 $^{\mathrm{1}}$	3
ED 295	Ed. 3 Experiencing Teaching as a Profession (Classroom Management 2, Diversity 3, Literacy 2) 2	3
ED 302	Teaching Exceptional Learners	3
ED 354	Curriculum and Assessment	3
ED 420	K - 6 Student Teaching	8-12
ED 395	Ed. 4 Extending Teaching as a Profession (Classroom Management 3, Literacy 3, Technology 3) $^{\rm 2}$	3
ED 415	5th-8th Grade Student Teaching	<u>12</u>
Middle Grades STEM (Courses	
ED 217	Introduction to STEM Education	3
ED 314	Chemistry Methods for STEM Edu	<u>3</u>
ED 318	Earth/Space Science for STEM E	<u>3</u>
ED 319	STEM Practicum I	<u>1</u>
Subtotal		<u>46</u>
Required Courses Out	side Department	
AS 104	Life in the Universe	<u>3</u>
<u>BI 100</u>	Human Biology	<u>3</u>
<u>BI 101</u>	Human Biology Laboratory	<u>2</u>
<u>BI 319</u>	Biology for STEM Educators	<u>3</u>
<u>CH 317</u>	Chemistry for STEM Educators I	<u>3</u>
<u>CN 150</u>	Public Speaking	3
MA 116	College Algebra	3
<u>MA 117</u>	<u>Trigonometry</u>	<u>3</u>
<u>MA 140</u>	<u>Statistics</u>	<u>3</u>
MA 200	Number & Operation for Elementary Teachers	<u>3</u>
MA 201	Geometry, Proportion & Data Analysis for Elementary Teachers	<u>3</u>
MA 204	Number Theory and Discrete Math for Middle School Teachers	<u>3</u>
MA 281	History of Early Mathematics	<u>1</u>
MA 320	Mathematics for Middle School Teachers	<u>3</u>

PS 108	Physical Science	<u>3</u>
PS XXX	Physical Science Elective	<u>3</u>
Physics or Engineering Elective	- The state of the	<u>3</u>
PY 100	Basic Concepts in Psychology	<u>3</u>
PY 211	Adolescent Psychology	
SO 101	Social Problems	3
Subtotal	Social Problems	<u>3</u>
Total Hours		<u>57</u> 103
10 can nours		103
Must be taken concurrently.		
2 = Must be taken concurrently.		
	ormal admission to teacher education:	
ED 155	Teaching, Learning, Leadership	3
ED 285	Educational Psychology	3
Total Hours		0
Education Core Courses:Content/Ger	neral Education/University Requirements:	
University Requirements		
EN 101	Introductory College Writing	3
EN-300	Advanced College Writing	3
MA 116	College Algebra ¹	3
Subtotal		0
Arts and Humanities		
CN 150	Public Speaking	3
Humanities Electives (from approve	ed General Education List in 2-disciplines)	6
Subtotal		9
Social Sciences		
PY 100	Basic Concepts in Psychology	3
PY 211	Adolescent Psychology	3
SO 101	Social Problems	3
Subtotal		0
Mathematics and Natural Sciences	;	
AS 104	Life in the Universe	3
BI 100	Human Biology	3
MA 117	Trigonometry	3
MA 140	Statistics Statistics	3
MA 204	Number Theory and Discrete Math for Middle School Teachers	3
MA 230	Math Middle/Secondary Teachers	4
MA 320	Mathematics for Middle School Teachers	3
MA 381	History and Literature of Mathematics	3
PS 108	Physical Science	3
Subtotal		0
STEM Courses		
ED 217	Introduction to STEM Education	3
CH 317	Chemistry for STEM Educators I	3
ED 314	Chemistry Methods for STEM Edu	3
PS 318	Earth and Space Science for STEM Educators I	3
		9

ED 318	Earth/Space Science for STEM E	3
BI 319	Biology for STEM Educators	3
ED 319	STEM Practicum I	4
EG 320	Engineering for STEM Educators	3
ED 321	STEM Practicum II	4
Subtotal		0
Total Hours		0

Pathway

Faculty Workload Analysis (describe how the course offering schedule and anticipated enrollments correlate to faculty lines)

Supplemental Files

Reviewer Holly Broxterman (holly.broxterman) (11/28/23 1:01 pm): 11/27/2023 - Approved by

Comments Academic Affairs Committee.

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