

FACULTY AGENDA ITEM

Date: 3/18/2024

Submitted by: Cherry Steffen, x. 1943

Subject: Significant Program Changes – Middle Grade STEM, BEd

Description / Rationale: Adding ED 321 back along with removing BI 100/BI 101 and replacing with BI 106

Financial Implications: None indicated.

Proposed Effective Date: Fall 2024

Request for Action: Approval by AAC/FS/ Gen Fac/WUBOR

Approved by: AAC on 3/18/2024

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: 03/19/24 9:06 am

Changes proposed by: Cherry Steffen (cherry.steffen)

Catalog Pages Using this Program [Middle Grades STEM, BED](#)

Change Type	Significant
Summarize	NOTE: *** RESUBMITTING THRU WORKFLOW DUE TO CHANGES ***
Changes and Include Rationale	1/9/2023 - Adding ED 321 back along with removing BI 100/BI 101 and replacing with BI 106. ----- Format of degree requirements were changed in accordance with catalog standardization efforts. 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 EN 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 for Changes: 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. EN 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.

General Information

Effective Catalog Edition	2024-2025
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 offered completely online?	
Does this program lead to a teaching certification?	Yes
Program Code	ED-MG-STEM
Is this program an	No

In Workflow

- Acad Ops
- ED Chair
- Library
- SAS Curr Policy Chair
- SAS Dean
- SAS Fac Council Chair
- Governance Check
- AA Committee
- Faculty Senate
- General Faculty
- Final Acad Ops
- Acad Ops
- ED Chair
- Library
- SAS Curr Policy Chair
- SAS Dean
- SAS Fac Council Chair
- Governance Check
- AA Committee
- Faculty Senate
- Final Acad Ops
- Registrar

Approval Path

- 11/07/23 4:39 pm
Beth O'Neill
(beth.oneill):
Approved for Acad Ops
- 11/08/23 10:21 am
Cherry Steffen
(cherry.steffen):
Approved for ED Chair
- 11/08/23 11:40 am
Sean Bird
(sean.bird):
Approved for Library
- 11/14/23 2:09 pm
Michelle Shipley
(michelle.shipley):
Approved for SAS Curr Policy Chair
- 11/17/23 3:33 pm
Zach Frank
(zach.frank):
Approved for SAS Dean
- 11/17/23 4:11 pm
Michelle Shipley
(michelle.shipley):
Approved for SAS Fac Council Chair
- 11/17/23 4:34 pm
Holly Broxterman
(holly.broxterman):
Approved for

interdisciplinary
program?

CIP Code [12.1213](#) - [12.1213](#)

Modality

Admission and Curriculum

Admission Criteria

Total Number of
Semester Credit
Hours for the
Degree
Curriculum

- Governance Check
8. 11/28/23 1:01 pm
Holly Broxterman
(holly.broxterman):
Approved for AA
Committee
9. 12/04/23 4:37 pm
Holly Broxterman
(holly.broxterman):
Approved for
Faculty Senate
10. 01/03/24 10:25 am
Holly Broxterman
(holly.broxterman):
Approved for
General Faculty
11. 01/18/24 9:20 am
Holly Broxterman
(holly.broxterman):
Approved for Final
Acad Ops
12. 01/19/24 1:28 pm
Holly Broxterman
(holly.broxterman):
Approved for Acad
Ops
13. 01/25/24 1:30 pm
Cherry Steffen
(cherry.steffen):
Approved for ED
Chair
14. 01/26/24 8:35 am
Sean Bird
(sean.bird):
Approved for
Library
15. 02/09/24 12:18 pm
Michelle Shipley
(michelle.shipley):
Approved for SAS
Curr Policy Chair
16. 02/12/24 9:42 am
Zach Frank
(zach.frank):
Approved for SAS
Dean
17. 02/26/24 2:56 pm
Michelle Shipley
(michelle.shipley):
Approved for SAS
Fac Council Chair
18. 02/26/24 3:32 pm
Beth O'Neill
(beth.oneill):
Approved for
Governance Check
19. 03/19/24 9:07 am
Holly Broxterman
(holly.broxterman):
Approved for AA
Committee

History

1. Apr 21, 2022 by
clmig-jwillging
2. Oct 26, 2022 by
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

<u>Required Courses Inside Department</u>		
<u>Pre-Admission Professional Education Courses</u>		
<u>ED 155</u>	<u>Teaching, Learning, Leadership</u>	<u>3</u>
<u>ED 285</u>	<u>Educational Psychology</u>	<u>3</u>
<u>Post-Admission CORE Education Courses</u>		
<u>ED 165</u>	Ed. 1, Examining Teaching as a Profession: Diversity 1, Literacy 1, Technology 1 ¹	3
<u>ED 275</u>	Ed. 2 Exploring Teaching as a Profession (Classroom Management 1, Diversity 2, Technology 2) Ed. 2 ¹	3
<u>ED 295</u>	Ed. 3 Experiencing Teaching as a Profession (Classroom Management 2, Diversity 3, Literacy 2) ²	3
<u>ED 302</u>	Teaching Exceptional Learners	3
<u>ED 354</u>	Curriculum and Assessment	3
<u>ED 420</u>	K-6 Student Teaching	8-12
<u>ED 395</u>	Ed. 4 Extending Teaching as a Profession (Classroom Management 3, Literacy 3, Technology 3) ²	3
<u>ED 415</u>	<u>5th-8th Grade Student Teaching</u>	<u>12</u>
<u>Middle Grades STEM Courses</u>		
<u>ED 217</u>	<u>Introduction to STEM Education</u>	<u>3</u>
<u>ED 314</u>	<u>Chemistry Methods for STEM Edu</u>	<u>3</u>
<u>ED 318</u>	<u>Earth/Space Science for STEM E</u>	<u>3</u>
<u>ED 319</u>	<u>STEM Practicum I</u>	<u>1</u>
<u>ED 321</u>	<u>STEM Practicum II</u>	<u>1</u>
<u>Subtotal</u>		<u>47</u>
<u>Required Courses Outside Department</u>		
<u>AS 104</u>	<u>Life in the Universe</u>	<u>3</u>
<u>BI 106</u>	<u>Everyday Biology</u>	<u>5</u>
<u>BI 319</u>	<u>Biology for STEM Educators</u>	<u>3</u>
<u>CH 317</u>	<u>Chemistry for STEM Educators I</u>	<u>3</u>
<u>CN 150</u>	<u>Public Speaking</u>	<u>3</u>
<u>MA 116</u>	<u>College Algebra</u>	<u>3</u>
<u>MA 117</u>	<u>Trigonometry</u>	<u>3</u>
<u>MA 140</u>	<u>Statistics</u>	<u>3</u>
<u>MA 200</u>	<u>Number & Operation for Elementary Teachers</u>	<u>3</u>
<u>MA 201</u>	<u>Geometry, Proportion & Data Analysis for Elementary Teachers</u>	<u>3</u>
<u>MA 204</u>	<u>Number Theory and Discrete Math for Middle School Teachers</u>	<u>3</u>
<u>MA 281</u>	<u>History of Early Mathematics</u>	<u>1</u>
<u>MA 320</u>	<u>Mathematics for Middle School Teachers</u>	<u>3</u>
<u>PS 108</u>	<u>Physical Science</u>	<u>3</u>
<u>PS XXX</u>	<u>Physical Science Elective</u>	<u>3</u>
<u>Physics or Engineering Elective</u>		<u>3</u>
<u>PY 100</u>	<u>Basic Concepts in Psychology</u>	<u>3</u>
<u>PY 211</u>	<u>Adolescent Psychology</u>	<u>3</u>
<u>SO 101</u>	<u>Social Problems</u>	<u>3</u>
<u>Subtotal</u>		<u>57</u>

1

Must be taken concurrently.

2

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Must be taken concurrently.

Pre-admission courses required for formal admission to teacher education:

ED 155	Teaching, Learning, Leadership	3
ED 285	Educational Psychology	3
Total Hours		0

Education Core Courses: Content/General Education/University Requirements:

University Requirements		
EN 101	Introductory College Writing	3
EN 300	Advanced College Writing	3
MA 116	College Algebra ¹	3
Arts and Humanities		
CN 150	Public Speaking	3
Humanities Electives (from approved General Education List in 2 disciplines)		6
Social Sciences		
PY 100	Basic Concepts in Psychology	3
PY 211	Adolescent Psychology	3
SO 101	Social Problems	3
Mathematics and Natural Sciences		
AS 104	Life in the Universe	3
BI 100	Human Biology	3
MA 117	Trigonometry	3
MA 140	Statistics	3
MA 204	Number Theory and Discrete Math for Middle School Teachers	3
MA 230	Course MA 230 Not Found	4
MA 320	Mathematics for Middle School Teachers	3
MA 381	History and Literature of Mathematics	3
PS 108	Physical Science	3
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
ED 318	Earth/Space Science for STEM E	3
BI 319	Biology for STEM Educators	3
ED 319	STEM Practicum-I	1
EG 320	Engineering for STEM Educators	3
ED 321	STEM Practicum-II	1
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.
Holly Broxterman (holly.broxterman) (12/04/23 4:37 pm): Proposal approved in 12/4/23

Faculty Senate meeting.

Holly Broxterman (holly.broxterman) (03/19/24 9:06 am): Approved in 3/18/24 Academic Affairs Committee Meeting.