

## FACULTY AGENDA ITEM

Date: 2/19/2023

Submitted by: Sarah Cook, x. 1498

SUBJECT: New Program Proposal – Mathematics Secondary Education: Core Mathematics 6-12

Description: The State of Kansas is developing a new licensure program for 6-12 mathematics. This license will be in addition to the existing 6-12 math licensure program. The new license will allow educators to teach only a restricted list of "core" secondary courses (geometry and below). The State is finishing the standards for this degree and is anticipating that Institutions will have a degree program available starting in the 2024-2025 academic year. It is important for Washburn to offer this new degree option to stay competitive with area institutions.

Rationale: Since this is a new program developed by the State, we are assuming that the State has done research to determine that the degree will be attractive to future educators. Currently students who want to teach middle school math can earn either an Elementary Education degree (through the Education Department) or a Math Secondary Education degree (through the Math Department). The proposed degree will be a mixture of courses from these two existing programs. This new degree will give students an option to focus on middle school mathematics while still obtaining their BEd from the Math Department. We have already had 3-5 students who have indicated a desire pursue this new degree.

Financial Implications: None indicated.

Proposed Effective Date: Fall 2024

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

Approved by: *AAC on 2/12/2024*

*FAC on date*

*Faculty Senate on date*

Attachments Yes ☒ No ☐

New Program Proposal

Date Submitted: 10/18/23 9:59 am

Viewing: : **Mathematics Secondary Education: Core Mathematics 6-12**

Last edit: 02/13/24 9:47 am

Changes proposed by: Sarah Cook (sarah.cook)

Catalog Pages Using this Program [Mathematics Secondary Education: Core Mathematics 6-12](#)

Final Catalog Edition 2024-2025  
Rationale for

Change Type Summarize  
Changes and

General Information

Effective Catalog Edition	2024-2025
Department	Mathematics and Statistics
College	College of Arts and Sciences
Division	Natural Science & Mathematics
Degree Level	Undergraduate
Program Title	Mathematics Secondary Education: Core Mathematics 6-12
Degree to be Offered	Bachelor of Education (BED)
Is there a Washburn Related	
Is this program offered completely online?	No
Does this program lead to a teaching certification?	Yes
Program Code	
Concentration	
Is this program an interdisciplinary program?	No
Interdisciplinary	
CIP Code	131311 - Mathematics Teacher Education.
Modality	

New Program Header

Statement of Justification/Rationale for Offering the Program

The State of Kansas is developing a new licensure program for 6-12 mathematics. This license will be in addition to the existing 6-12 math licensure program. The new license will allow educators to teach only a restricted list of "core" secondary courses (geometry and below). The State is finishing the standards for this degree and is anticipating that Institutions will have a degree program available starting in the 2024-2025 academic year. It is important for Washburn to offer this new degree option to stay competitive with area institutions.

In Workflow

- 1. Acad Ops
- 2. MA Chair
- 3. Library
- 4. ED Chair
- 5. NSM Chair
- 6. CA Dean
- 7. CFCCC Chair
- 8. Assoc Dean CFC
- 9. CA Assoc Dean
- 10. Governance Check
- 11. AA Committee
- 12. Faculty Senate
- 13. General Faculty
- 14. WUBOR
- 15. Final Acad Ops
- 16. Registrar

Approval Path

- 1. 10/18/23 2:31 pm  
Holly Broxterman (holly.broxterman):  
Approved for Acad Ops
- 2. 10/18/23 2:42 pm  
Sarah Cook (sarah.cook):  
Approved for MA Chair
- 3. 10/19/23 2:49 pm  
Sean Bird (sean.bird):  
Approved for Library
- 4. 10/19/23 2:58 pm  
Cherry Steffen (cherry.steffen):  
Approved for ED Chair
- 5. 10/22/23 1:33 pm  
Andrew Herbig (andrew.herbig):  
Approved for NSM Chair
- 6. 11/28/23 3:18 pm  
Kelly Erby (kelly.erby):  
Approved for CA Dean
- 7. 01/26/24 3:36 pm  
Bruce Mactavish (bruce.mactavish):  
Approved for CFCCC Chair
- 8. 01/30/24 9:23 pm  
Kelly Erby (kelly.erby):  
Approved for Assoc Dean CFC
- 9. 02/07/24 5:41 pm

Program Demand Since this is a new program developed by the State, we are assuming that the State has done research to determine that the degree will be attractive to future educators. Currently students who want to teach middle school math can earn either an Elementary Education degree (through the Education Department) or a Math Secondary Education degree (through the Math Department). The proposed degree will be a mixture of courses from these two existing programs. This new degree will give students an option to focus on middle school mathematics while still obtaining their BEd from the Math Department. We have already had 3-5 students who have indicated a desire pursue this new degree.

Kelly Erby  
(kelly.erby):  
Approved for CA  
Assoc Dean  
10. 02/07/24 5:59 pm  
Holly Broxterman  
(holly.broxterman):  
Approved for  
Governance Check  
11. 02/13/24 9:47 am  
Holly Broxterman  
(holly.broxterman):  
Approved for AA  
Committee

Projected Enrollment for the Initial Three Years of the Program

Implementation				(holly.broxterm Approved for A Committee
Full-Time	Part-Time			
Full-Time	Part-Time Sem			
Year 2				
Full-Time	5	Part-Time Headcount	0	
Headcount Per Year		Per Year		
Full-Time Sem	150	Part-Time Sem Credit	0	
Credit Hrs Per Year		Hrs Per Year		
Year 3				
Full-Time	8	Part-Time Headcount	0	
Headcount Per Year		Per Year		
Full-Time Sem	240	Part-Time Sem Credit	0	
Credit Hrs Per Year		Hrs Per Year		

Employment

Employment Opportunity Information Middle and High School math teachers are in extremely high demand. The Kansas State Department of Education website currently lists several openings for middle school and/or high school math teachers. We are aware that many positions went unfilled last year. Some schools are even resorting to emergency certifying community members to teach their high school core math courses (especially in rural communities) .

Admission and Curriculum

Admission Criteria Students will need to be admitted to the Department of Education under the same criteria as existing Education students.

Total Number of Semester Credit Hours for the Degree 120

Curriculum

Degree Requirements

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. Please see your advisor for more information.

Students seeking certification to teach mathematics must also be formally admitted to the University's Professional Teacher Education Programs.

Required Courses Inside Mathematics Department		
MA 116	College Algebra	3
MA 117	Trigonometry	3
MA 140	Statistics	3
MA 151	Calculus & Analytic Geometry I	5

<a href="#">MA 200</a>	Number & Operation for Elementary Teachers	3
<a href="#">MA 201</a>	Geometry, Proportion & Data Analysis for Elementary Teachers	3
<a href="#">MA 204</a>	Number Theory and Discrete Math for Middle School Teachers	3
<a href="#">MA 260</a>	Introduction to Number Theory	3
<a href="#">MA 315</a>	Seminar: Teaching Mathematics	1
<a href="#">MA 316</a>	Teaching Algebra	1
<a href="#">MA 320</a>	Mathematics for Middle School Teachers	3
<a href="#">MA 367</a>	Modern Geometry	3
<a href="#">MA 381</a>	History and Literature of Mathematics	3
Subtotal		37
<b>Required Courses Inside Education Department</b>		
<a href="#">ED 155</a>	Teaching, Learning, Leadership	3
<a href="#">ED 165</a>	Ed. 1, Examining Teaching as a Profession: Diversity 1, Literacy 1, Technology 1	3
<a href="#">ED 275</a>	Ed. 2 Exploring Teaching as a Profession (Classroom Management 1, Diversity 2, Technology 2) Ed. 2	3
<a href="#">ED 285</a>	Educational Psychology	3
<a href="#">ED 295</a>	Ed. 3 Experiencing Teaching as a Profession (Classroom Management 2, Diversity 3, Literacy 2)	3
<a href="#">ED 302</a>	Teaching Exceptional Learners	3
<a href="#">ED 321</a>	STEM Practicum II	1
<a href="#">ED 340</a>	Teaching in Adolescent Middle Level Environment	2
<a href="#">ED 349</a>	Middle Level Mathematics Practicum	1
<a href="#">ED 354</a>	Curriculum and Assessment	3
<a href="#">ED 363</a>	Methods of Teaching Math in Secondary School	3
<a href="#">ED 395</a>	Ed. 4 Extending Teaching as a Profession (Classroom Management 3, Literacy 3, Technology 3)	3
<a href="#">ED 410</a>	Secondary Student Teaching	12
Subtotal		43
<b>Required Courses Inside Other Departments</b>		
<a href="#">PY 211</a>	Adolescent Psychology	3
Subtotal		3
Total Hours		83
Pathway		

Core Faculty	
Faculty Name	Janet Sharp
Rank	Professor
Highest Degree	Doctorate
Tenure Track	Yes
Academic Area of Specialization	Math Education
FTE to Proposed Program	.75
Faculty Name	Jennifer Wagner
Rank	Professor
Highest Degree	Doctorate

Tenure Track	Yes
Academic Area of Specialization	Combinatorics
FTE to Proposed Program	.25

### Faculty Workload Analysis

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

Every course in this degree program is a course required for either the existing Elementary Education Middle School Math/STEM degree or the existing Secondary Education Mathematics degree (see attachment). Thus, our course offering schedule will not change in the near future. While we expect larger enrollments in the math courses required for this degree, we do not expect the enrollment sizes to require additional sections of the courses in the near future.

Supplemental Files     [Comparison of Math BEds.pdf](#)

Reviewer     **Beth ONeill (beth.oneill) (10/18/23 12:36 pm):** Format changes needed for catalog degree requirement standardization completed.

Comments     **Beth ONeill (beth.oneill) (01/23/24 10:36 am):** Program name changed to reflect KSDE licensure wording, as requested by Sarah Cook.

**Holly Broxterman (holly.broxterman) (02/13/24 9:47 am):** Approved by Academic Affairs Committee in 2/12/2024 meeting.