



**SOUTH DAKOTA BOARD OF REGENTS  
ACADEMIC AFFAIRS FORMS**

**New Course Request**

<b>SDSU</b>	<b>Jerome J. Lohr College of Engineering / Mathematics and Statistics</b>	
<b>Institution</b>	<b>Division/Department</b>	
Dennis D. Hedge		2/13/2025
<b>Institutional Approval Signature</b>		<b>Date</b>

**Section 1. Course Title and Description**

Prefix & No.	Course Title	Credits
MATH 301	Mathematics Professions 3	2

**Course Description**

In this course, students will prepare to continue in academia or to enter the workforce in a quantitative profession through activities designed to refresh mathematics skills and develop skills such as collaboration, analysis, research, and written and verbal communication of quantitative ideas.

**Pre-requisites or Co-requisites**

Prefix & No.	Course Title	Pre-Req/Co-Req?
MATH 230	Mathematics Professions 2	Pre-req

**Registration Restrictions**

None

**Section 2. Review of Course**

**2.1. Will this be a unique or common course?**

**Unique Course**

Prefix & No.	Course Title	Credits
MATH 198	The Mathematics Profession	1
MATH 230	Sophomore Seminar	1
MATH 401	Senior Capstone	1-2

Provide explanation of differences between proposed course and existing system catalog courses below:

MATH 198, MATH 230, and MATH 401 focus on the mathematics profession that start with students as freshman and culminate in the senior capstone experience. MATH 401 has been a two-semester course. This request will separate the content into two courses – MATH 301 and MATH 401. Additionally, the department has restructured the program to unify the professional courses under a consistent naming system: Mathematics Professions 1, 2, 3, and 4.

**Section 3. Other Course Information**

**3.1. Are there instructional staffing impacts?**

No. Schedule Management, explain below: Currently the department offers MATH 401 as a two-semester course. MATH 301 will replace the first semester of MATH 401.

**3.2. Existing program(s) in which course will be offered:** Mathematics (B.S.), Mathematics (B.S.) - Data Science Specialization, Mathematics (B.S.) – Teaching Specialization, Data Science (B.S.),

**3.3. Proposed instructional method by university (as defined by AAC Guideline 2.4.3.A):** E - Seminar

**3.4. Proposed delivery method by university (as defined by AAC Guideline 2.4.3.B and 2.4.3.B(A-1)):** 001 -

Face to Face

3.5. Term change will be effective: Fall 2025

3.6. Can students repeat the course for additional credit?  Yes, total credit limit:  No

3.7. Will grade for this course be limited to S/U (pass/fail)?  Yes  No

3.8. Will section enrollment be capped?  Yes, max per section:  No

3.9. Will this course equate (i.e., be considered the same course for degree completion) with any other unique or common courses in the common course system database in Colleague and the Course Inventory Report?  Yes  No

3.10. Is this prefix approved for your university?  Yes  No

**Section 4. Department and Course Codes (Completed by University Academic Affairs)**

4.1. University Department: Department of Mathematics and Statistics

4.2. Banner Department Code: SMAS

4.3. Proposed CIP Code: 27.0101

Is this a new CIP code for the university?  Yes  No

**NEW COURSE REQUEST  
Supporting Justification for On-Campus Review**

Donna Flint	Donna Flint	1/29/2025
<b>Request Originator</b>	<b>Signature</b>	<b>Date</b>
Eun Heui Kim	Eun Heui Kim	1/29/2025
<b>Department Chair</b>	<b>Signature</b>	<b>Date</b>
Suzette Burckhard	Suzette Burckhard	1/29/2025
<b>School/College Dean</b>	<b>Signature</b>	<b>Date</b>

1. Provide specific reasons for the proposal of this course and explain how the changes enhance the curriculum.

The Mathematics program has a two-semester MATH 401 Senior Capstone, which is repeatable. This has caused some confusion regarding how it contributes to graduation requirements. To clarify, the department has now separated the courses into MATH 301 and MATH 401. Additionally, the department has restructured the program to unify the professional courses under a consistent naming system: Mathematics Professions 1, 2, 3, and 4. These courses will start with freshmen and culminate in the senior capstone experience. Math Education and Data Science students will take Mathematics Professions 1, 2, and 3, while Mathematics majors will take all four courses: Mathematics Professions 1, 2, 3, and 4.

2. Note whether this course is:  Required  Elective

3. In addition to the major/program in which this course is offered, what other majors/programs will be affected by this course?

None

4. If this will be a dual listed course, indicate how the distinction between the two levels will be made.

N/A

5. Desired section size 25

6. Provide qualifications of faculty who will teach this course. List name(s), rank(s), and degree(s).

Donna Flint, Professor, Ph.D.

Frederick Boehm, Assistant Professor, Ph.D.

7. Note whether adequate facilities are available and list any special equipment needed for the course.

The current facilities and equipment will be sufficient to support this class.

8. Note whether adequate library and media support are available for the course.

Current library and media resources are sufficient to support this course.

9. Will the new course duplicate courses currently being offered on this campus?  Yes  No

10. If this course may be offered for variable credit, explain how the amount of credit at each offering is to be determined.

N/A