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| For Academic Affairs and Research Use Only | |
| Proposal Number |  |
| CIP Code: |  |
| Degree Code: |  |

**Program Modification Form**

**[ ] Undergraduate Curriculum Council**

**[x] Graduate Council**

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| --- |
| **Modification Type: [ ]Admissions, [ ]Curricular Sequence, or [X]Other** |

Signed paper copies of proposals submitted for consideration are no longer required. Please type approver name and enter date of approval.

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| |  |  | | --- | --- | | Hong Zhou | 1/28/2022 |   **Department Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **COPE Chair (if applicable)** |
| |  |  | | --- | --- | | Amanda Lambertus | 2/7/2022 |   **Department Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Head of Unit (if applicable)** |
| |  |  | | --- | --- | | John Hershberger | 2/21/2022 |   **College Curriculum Committee Chair** | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Undergraduate Curriculum Council Chair** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Director of Assessment** *(only for changes impacting assessment)* | |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **Graduate Curriculum Committee Chair** |
| |  |  | | --- | --- | | Lynn Boyd | 3/1/2022 |   **College Dean** | |  |  | | --- | --- | | Alan Utter | 3/31/2022 |   **Vice Chancellor for Academic Affairs** |
| |  |  | | --- | --- | | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Enter date |   **General Education Committee Chair (if applicable)** |  |

1. **Contact Person** (Name, Email Address, Phone Number)

Jie Miao, [jmiao@astate.edu](mailto:jmiao@astate.edu), 870-680-8168

1. **Proposed Change** (for undergraduate curricular changes please provide an 8-semester plan (appendix A), if applicable)

The Department of Mathematics and Statistics proposes to offer an accelerated option for the Master of Science in Mathematics degree.

Additional admission criteria for the accelerated master’s program:

1. minimum overall GPA of 3.00

2. minimum GPA of 3.25 in courses with a MATH and STAT prefix

3. completion of MATH 4553

After admission into the accelerated master’s program, undergraduate students may take up to 9 hours of 5000-level coursework as part of the accelerated masters program.

1. **Effective Date**

Fall 2022

1. **Justification –** *Please provide details as to why this change is necessary.*

The department plans to recruit more students to the MS in Mathematics program as this option would offer incentives to undergraduate students to continue their graduate study at A-State instead of attending a different university. In addition, there are relatively few such programs in the state.

**Bulletin Changes**

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| **Instructions** |
| **Please visit** [**http://www.astate.edu/a/registrar/students/bulletins/index.dot**](http://www.astate.edu/a/registrar/students/bulletins/index.dot) **and select the most recent version of the bulletin. Copy and paste all bulletin pages this proposal affects below. Please include a before (with changed areas highlighted) and after of all affected sections.**  **\*Please note: Courses are often listed in multiple sections of the bulletin. To ensure that all affected sections have been located, please search the bulletin (ctrl+F) for the appropriate courses before submission of this form.** |

**Page 303 of graduate bulletin**

**Program of Study for the Master of Science in Mathematics**

**ADMISSION REQUIREMENTS**

Students seeking admission into the Master of Science degree program in Mathematics, must meet the admission requirements of Graduate Admissions and the specific program requirements. Students may not take 6000-level courses for credit until all undergraduate deficiencies have been removed.

**Mathematics**

**Master of Science**

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| --- | --- |
| **University Requirements:** |  |
| See Graduate Degree Policies for additional information (p. 47) |  |
| **Program Requirements:**  Minimum 21 hours of 6000-level coursework excluding thesis. | **Sem. Hrs.** |
| **Select two of the following two-semester sequences:**  MATH 6823, Functions of a Real Variable I **AND**  MATH 6833, Functions of a Real Variable II  MATH 6853, Functions of a Complex Variable I **AND**  MATH 6863, Functions of a Complex Variable II  MATH 6603, Abstract Algebra I **AND**  MATH 6613, Abstract Algebra II  MATH 6753, Point Set Topology **AND**  MATH 6623, Differential Geometry  MATH 6873, Numerical Analysis I **AND**  MATH 6883, Numerical Analysis II | 12 |
| **Select three of the following:**  MATH 6813, Advanced Ordinary Differential Equations  MATH 6643, Advanced Linear Algebra  MATH 6653, Theory of Numbers  Any course listed in the box above that is not used for two sequence requirement (a se- quence is not required) | 9 |
| MATH Electives | 6 |
| Approved electives in related area | 6 |
| **Sub-total** | **33** |
| **Total Required Hours:** | **33** |

*The bulletin can be accessed at* [*https://www.astate.edu/a/registrar/students/bulletins*](http://www.astate.edu/a/registrar/students/bulletins)

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**Program of Study for the Master of Science in Mathematics**

**ADMISSION REQUIREMENTS**

Students seeking admission into the Master of Science degree program in Mathematics, must meet the admission requirements of Graduate Admissions and the specific program requirements. Students may not take 6000-level courses for credit until all undergraduate deficiencies have been removed.

**ACCELERATED MASTERS PROGRAM**

Undergraduate students seeking admission into the Accelerated Masters Program in Mathematics must meet the admission requirements of Graduate Admissions. In addition, applicants will be evaluated by the department for academic qualification based upon the following requirements:

1. minimum overall GPA of 3.00

2. minimum GPA of 3.25 in courses with a MATH and STAT prefix

3. completion of MATH 4553

After admission into the accelerated masters program, undergraduate students may take up to 9 hours of 5000-level coursework as part of the accelerated masters program.

Mathematics

**Master of Science**

|  |  |
| --- | --- |
| **University Requirements:** |  |
| See Graduate Degree Policies for additional information (p. 47) |  |
| **Program Requirements:**  Minimum 21 hours of 6000-level coursework excluding thesis. | **Sem. Hrs.** |
| **Select two of the following two-semester sequences:**  MATH 6823, Functions of a Real Variable I **AND**  MATH 6833, Functions of a Real Variable II  MATH 6853, Functions of a Complex Variable I **AND**  MATH 6863, Functions of a Complex Variable II  MATH 6603, Abstract Algebra I **AND**  MATH 6613, Abstract Algebra II  MATH 6753, Point Set Topology **AND**  MATH 6623, Differential Geometry  MATH 6873, Numerical Analysis I **AND**  MATH 6883, Numerical Analysis II | 12 |
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| **Total Required Hours:** | **33** |

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