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

**New or Modified Course Proposal Form**

**[ ] Undergraduate Curriculum Council**

**[X] Graduate Council**

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| **[X]New Course, [ ]Experimental Course (1-time offering), or [ ]Modified Course (Check one box)** |

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 3/3/2022**Department Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**COPE Chair (if applicable)** |
|  Amanda Lambertus 3/3/2022**Department Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Head of Unit (if applicable)**   |
| John Hershberger 3/16/2022**College Curriculum Committee Chair** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Undergraduate Curriculum Council Chair** |
| Mary Elizabeth Spence 3/17/2022**Office of Assessment (new courses only)** | \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Enter date…**Graduate Curriculum Committee Chair** |
| Lynn Boyd 3/17/2022**College Dean** | Alan Utter 4/28/2022**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, 870-680-8168

1. **Proposed starting term and Bulletin year for new course or modification to take effect**

Fall 2022

**Instructions:**

*Please complete all sections unless otherwise noted. For course modifications, sections with a “Modification requested?” prompt need not be completed if the answer is “No.”*

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|  | **Current (Course Modifications Only)** | **Proposed (New or Modified)** *(Indicate “N/A” if no modification)* |
| **Prefix** |  | **STAT** |
| **Number\*** |  | **689V** |
| **Title** (include a short title that’s 30 characters or fewer) |  | **Thesis** |
| **Description\*\*** |  |  |

 ***\**** Confirm with the Registrar’s Office that number chosen has not been used before and is available for use. For variable credit courses, indicate variable range. *Proposed number for experimental course is 9*.

\*\*Forty words or fewer (excepting prerequisites and other restrictions) as it should appear in the Bulletin.

1. **Proposed prerequisites and major restrictions** **[Modification requested? Yes/No]**

(Indicate all prerequisites. If this course is restricted to a specific major, which major. If a student does not have the prerequisites or does not have the appropriate major, the student will not be allowed to register).

1. **Yes / No** Are there any prerequisites? No
	1. If yes, which ones?

Enter text...

* 1. Why or why not?

A specific prerequisite is not required as it needs approval of a faculty mentor.

1. **Yes / No** Is this course restricted to a specific major? No
	1. If yes, which major? Enter text...
2. **Proposed course frequency [Modification requested? Yes/No]**

(e.g. Fall, Spring, Summer; if irregularly offered, please indicate, “irregular.”) *Not applicable to Graduate course*

1. **Proposed course type [Modification requested? Yes/No]**

Will this course be lecture only, lab only, lecture and lab, activity (e.g., physical education), dissertation/thesis, capstone, independent study, internship/practicum, seminar, special topics, or studio? Please choose one.

Thesis

1. **Proposed grade type [Modification requested? Yes/No]**

What is the grade type (i.e. standard letter, credit/no credit, pass/fail, no grade, developmental, or other [please elaborate])

Credit/No credit

1. **Yes / No** Is this course dual-listed (undergraduate/graduate)? No
2. **Yes / No** Is this course cross-listed? No

*(If it is, all course entries must be identical including course descriptions. Submit appropriate documentation for requested changes. It is important to check the course description of an existing course when adding a new cross-listed course.)*

**a.** – If yes, please list the prefix and course number of the cross-listed course.

 Enter text...

 **b.** – **Yes / No** Can the cross-listed course be used to satisfy the prerequisite or degree requirements this course satisfies?

 Enter text...

1. **Yes / No** Is this course in support of a new program? Yes

a. If yes, what program?

 MS Statistics

1. **Yes / No** Will this course be a one-to-one equivalent to a deleted course or previous version of this course (please check with the Registrar if unsure)? No

a. If yes, which course?

Enter text...

**Course Details**

1. **Proposed outline** **[Modification requested? Yes/No]**

(The course outline should be topical by weeks and should be sufficient in detail to allow for judgment of the content of the course.)

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| N/A |  |

1. **Proposed special features** **[Modification requested? Yes/No]**

(e.g. labs, exhibits, site visitations, etc.)

N/A

1. **Department staffing and classroom/lab resources**

No

1. Will this require additional faculty, supplies, etc.?

 No

1. **Yes / No** Does this course require course fees? No

 *If yes: please attach the New Program Tuition and Fees form, which is available from the UCC website.*

**Justification**

**Modification Justification (Course Modifications Only)**

1. Justification for Modification(s)

N/A

**New Course Justification (New Courses Only)**

1. Justification for course. Must include:

 a. Academic rationale and goals for the course (skills or level of knowledge students can be expected to attain)

 Students will enhance their knowledge of statistics and research skills that cannot be acquired through a regular

 course offered by the MS Statistics Program.

b. How does the course fit with the mission of the department? If course is mandated by an accrediting or certifying agency, include the directive.

 This course fits well with our department’s mission of providing a “quality education to students, graduates, undergraduates in variety majors and prepare students for a variety of future endeavors and careers in business, industry, government, research, and academia.” This course provides an option for graduate students in the MS Statistics Program who want to gain more knowledge and research skills beyond normal course work in order to better prepare for a professional career or to pursue a Ph.D. degree in Statistics.

c. Student population served.

 MS Statistics graduate students who wish to do a thesis for their degree.

d. Rationale for the level of the course (lower, upper, or graduate).

 Master’s thesis is designed for graduate students in the MS Statistics program.

**Assessment**

**Assessment Plan Modifications (Course Modifications Only)**

1. **Yes / No** Do the proposed modifications result in a change to the assessment plan?

 *If yes, please complete the Assessment section of the proposal*

**Relationship with Current Program-Level Assessment Process (Course modifications skip this section unless the answer to #18 is “Yes”)**

1. What is/are the intended program-level learning outcome/s for students enrolled in this course? Where will this course fit into an already existing program assessment process?

This course will serve as an elective option for the M.S. in Statistics program. It is connected to Program-Level Outcomes 1-5 (see below).

1. Considering the indicated program-level learning outcome/s (from question #19), please fill out the following table to show how and where this course fits into the program’s continuous improvement assessment process.

*For further assistance, please see the ‘Expanded Instructions’ document available on the UCC - Forms website for guidance, or contact the Office of Assessment at 870-972-2989.*

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| **Program-Level Outcome 1 (from question #19)** | M.S. Statistics graduates will explain and use advanced statistical theory and content knowledge. |
| Assessment Measure | Comprehensive examinations at end of degree program; Student exit interview and program evaluation survey. |
| Assessment Timetable | Data collected and reviewed every year |
| Who is responsible for assessing and reporting on the results? | Department Chair, Graduate Studies Director, Comprehensive Examination Committee |
| **Program-Level Outcome 2 (from question #19)** | M.S. Statistics graduates will design studies, use graphical and other means to explore data, build and assess statistical models, employ a variety of formal inference procedures. |
| Assessment Measure | Comprehensive examinations at end of degree program; Student exit interview and program evaluation survey. |
| Assessment Timetable | Data collected and reviewed every year |
| Who is responsible for assessing and reporting on the results? | Department Chair, Graduate Studies Director, Comprehensive Examination Committee |
| **Program-Level Outcome 3 (from question #19)** | M.S. Statistics graduates will draw appropriate conclusions from the analysis and apply statistical methods to real world problem, assess their appropriateness. |
| Assessment Measure | Comprehensive examinations at end of degree program; Student exit interview and program evaluation survey. |
| Assessment Timetable | Data collected and reviewed every year |
| Who is responsible for assessing and reporting on the results? | Department Chair, Graduate Studies Director, Comprehensive Examination Committee |
| **Program-Level Outcome 4 (from question #19)** | M.S. Statistics graduates will be familiar with professional statistical software and other appropriate tools for data exploration, cleaning, validation, analysis, communication. |
| Assessment Measure | Comprehensive examinations at end of degree program; Student exit interview and program evaluation survey. |
| Assessment Timetable | Data collected and reviewed every year |
| Who is responsible for assessing and reporting on the results? | Department Chair, Graduate Studies Director, Comprehensive Examination Committee |
| **Program-Level Outcome 5 (from question #19)** | M.S. Statistics graduates will interact with and communicate with collaborators to understand their needs and effectively discuss results and conclusions through technical writing, presentations and visualizations. |
| Assessment Measure | Comprehensive examinations at end of degree program; Student exit interview and program evaluation survey. |
| Assessment Timetable | Data collected and reviewed every year |
| Who is responsible for assessing and reporting on the results? | Department Chair, Graduate Studies Director, Comprehensive Examination Committee |

 *(Repeat if this new course will support additional program-level outcomes)*

 **Course-Level Outcomes**

1. What are the course-level outcomes for students enrolled in this course and the associated assessment measures?

N/A

**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.**  |

2021-22 Graduate Bulletin, Page 426 before:

**STAT 6833. Biostatistics** Applications of advanced statistical techniques to the Life and Health Sciences. Topics include estimation and hypothesis testing, single and multiway analysis of variance (ANOVA), linear regression, correlation and frequency analysis. Prerequisite, an introductory level statistics course.

2021-22 Graduate Bulletin, Page 426 after:

**STAT 6833. Biostatistics** Applications of advanced statistical techniques to the Life and Health Sciences. Topics include estimation and hypothesis testing, single and multiway analysis of variance (ANOVA), linear regression, correlation and frequency analysis. Prerequisite, an introductory level statistics course.

**STAT 680V. Independent Study**

**STAT 689V. Thesis**