

Mathematics and Statistics Career Preparation (1)

(Effective Spring 2015)

Prerequisite: Math 314 and Math 320 (or permission of chair).

Catalog Description: This course will introduce mathematics and statistics majors to formal mathematical and statistical written and verbal communication including, but not limited to, preparing presentations and written papers in the mathematical and statistical sciences. The course will also provide majors with assistance in preparing resumes and various requirements, procedures, and guidelines of graduate school applications.

Learning Outcomes for Major: This course addresses one or more of the student learning outcomes for the major. Upon completion of his/her degree from the University of Tennessee at Martin with a major in mathematics, the graduate will be able to:

- i. apply mathematical concepts and principles to perform numerical and symbolic computations.
- ii. use technology appropriately to investigate and solve mathematical and statistical problems.
- iii. write clear and precise proofs.
- iv. communicate effectively in both written and oral form.
- v. demonstrate the ability to read and learn mathematics and/or statistics independently.

Teaching Objectives: The student will:

1. Provide basic knowledge and ideas present in preparation of formal presentations.
2. Provide basic knowledge and ideas present in technical writing in the mathematical and statistical sciences—especially ethical referencing.
3. Provide basic knowledge of post-graduate opportunities including, but not limited to, resume writing, graduate school applications and the GRE.
4. Introduce students to basic research techniques.

Text(s): Instructor provides the materials as needed. Materials include a list of problems for each presentation and guidelines for preparation of papers and presentations.

Outline:	Chapter	Title (Sections)
	week 1	Introduction, syllabus, Powerpoint/Latex introduction
	week 2	Latex discussion
	week 3	Latex discussion, presentation one
	week 4	Presentation paper due, discussion of presentation
	week 5	Student work week; Faculty available for questions
	week 6	Faculty-chosen topics
	week 7	Proposal from students for formal project, faculty-chosen topics
	week 8	Student work week; Faculty available for questions
	week 9	Presentations by students
	week 10	Resume/Curriculum Vitae writing
	week 11	Student work week; Faculty available for questions
	week 12	GRE/graduate school preparation
	week 13	Formal presentations by students
	week 14	Discussion of presentations and course conclusion

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