Course Description
This course provides an introduction to actuarial models and their constructions as well as evaluations. The contents include discrete and continuous actuarial models, aggregate models, estimation of the models based on complete data and modified data, maximum likelihood estimation, variance estimation, Bayes estimation, model selection, and credibility theory.

Prerequisites
You should have known basic concepts and methods in probability theory and statistics.

Textbook

Reference book

Grading Policy
- **Homework Assignments:** 25%. There are homework assignments for each chapter. Doing homework is critically important for you to understand the materials covered and prepare for exams.
- **Exams:** 75%. There will be three in-class midterm exams and one comprehensive final exam. Each exam counts for 25% of the grade. The worst one will be dropped. Midterm exam will be announced in class at least one week earlier. Final exam is at 3:30-5:30pm on Thursday, 5/5/2016.
- **Bonus:** You may get up to 3% bonus for you good performance by actively participating in-class discussions and out-of-class hard work.
- **Grade Scale:** A: above 90%; B+: 86%-89%; B: 80%-85%; C+: 76-79%; C: 70%-75%; D+: 66%-69%; D: 60%-65%; F: below 60%. Students who pass Exam C/4 by May 2015 will receive A.

Make-up policy:
In general there will be **NO** make-ups for exams. For special situations, make-up can be arranged if your absence is reasonable and you are able to provide formal supporting document.
Withdrawal Information:
No grade of W will be assigned after the official drop date except in situations involving extreme extenuating circumstances beyond the student’s control. In particular, a W will not be granted merely because the student is failing. Students should be aware that missing the official drop date and thereby receiving an F can have ramifications on financial aid.

Any student who currently has Financial Aid (898-2830) or Housing (898-2971) and is dropping below full time or withdrawing completely should contact those offices to understand how their actions will affect their status.

Lottery Scholarship:
To retain Tennessee Education Lottery Scholarship eligibility, you must earn a cumulative TELS GPA of 2.75 after 24 and 48 attempted hours and a cumulative TELS GPA of 3.0 thereafter. You may qualify with a 2.75 cumulative GPA after 72 attempted hours (and subsequent semesters), if you are enrolled full-time and maintain a semester GPA of at least 3.0. A grade of C, D, F, FA, or I in this class may negatively impact TELS eligibility. Dropping or stopping attendance in a class after 14 days may also impact eligibility; if you withdraw from or stop attending this class and it results in an enrollment status of less than full time, you may lose eligibility for your lottery scholarship. Lottery recipients are eligible to receive the scholarship for a maximum of five years from the date of initial enrollment, or until reaching 120 TELS attempted hours or earning a bachelor degree. For additional Lottery rules, please refer to your Lottery Statement of Understanding form http://mtsu.edu/financialaid/forms/Lottery%20Statement%20of%20Understanding%202013-14.pdf or contact the Financial Aid Office at 898-2830.

Reasonable Accommodation for Students with Disabilities:
If you have a disability that may require assistance or accommodation, or you have questions related to any accommodations for testing, note takers, readers, etc., please speak with me as soon as possible. Students may also contact the Office of Disabled Students Services (898-2783) with questions about such services.

Academic Misconduct
Middle Tennessee State University takes a strong stance against academic misconduct. Academic Misconduct includes, but is not limited to, plagiarism, cheating, and fabrication.

1. **Plagiarism:** The adoption or reproduction of ideas, words, statements, images, or works of another person as one’s own without proper attribution. This includes self-plagiarism, which occurs when an author submits material or research from a previous academic exercise to satisfy the requirements of another exercise and uses it without proper citation of its reuse.

2. **Cheating:** Using or attempting to use unauthorized materials, information, or study aids in any academic exercise. This includes unapproved collaboration, which occurs when a student works with others on an academic exercise without the express permission of the professor. The term academic exercise includes all forms of work submitted for credit or hours.

3. **Fabrication:** Unauthorized falsification or invention of any information or citation in an academic exercise.

To be clear: going online and taking information without proper citations, copying parts of other student’s work, creating information for the purposes of making your paper seem more official, or anything involving taking someone else’s thoughts or ideas without proper attribution is academic misconduct. If you work together on an assignment when it is not allowed, it is academic misconduct. If you have a question about an assignment, please come see me to clarify. Any cases of academic misconduct will be reported to the Office of Academic Affairs for violating the academic honesty requirements in the student handbook. They will also result in failure for the course. Remember – ignorance is NOT a defense.