ACT 466H1/STA2505H, Credibility and Simulation, Winter 2014

<table>
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<tr>
<th>Lecture Section</th>
<th>L0101</th>
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<tr>
<td>Lecture times, location</td>
<td>Tu 11:00 a.m. - 12:00 p.m. – SS1073</td>
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<td>Thur 10:00 a.m. - 12:00 p.m. – SS1073</td>
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<tr>
<td>Instructor</td>
<td>Dr. Andrei Badescu, SS6024</td>
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<td><a href="mailto:badescu@utstat.toronto.edu">badescu@utstat.toronto.edu</a></td>
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<tr>
<td>Instructor office hours</td>
<td>Thursday: 3:10 p.m.- 5:00 p.m. – SS6024</td>
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<td>or by appointment.</td>
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Texts:

**Required**

**Additional**

Coverage:

- Limited Fluctuation Credibility
- Bayesian Credibility – Discrete and Continuous Prior
- Bayesian Credibility for Parametric Distributions
- Bühlmann Credibility
- Empirical Bayes Credibility Methods
- Simulation

Course Objective:

This course is designed to help you to prepare for the portion of Exam C of the Society of Actuaries (www.soa.org). Questions and in-class discussions are encouraged.

Marking Scheme:

The final course mark will be determined via 1 in-class term test, worth 40% and a final exam worth 60%. These weights will not be changed, either for the whole class or for any individuals. The test and the final exam will NOT be in multiple choice format.

- Term Test          - 27 February, 1 ½ hours (during the class time)
- Final Exam         - TBA
Missed Term test:

There will be no written make-up test. If you miss the term test, you are required by faculty regulation to submit, within one week, appropriate documentation to the course instructor or the Departmental office: SS6018. Print on the documentation your name, student #, the course number and the date. I shall be skeptical about accepting medical certificates unless the doctor specifically indicates that in his/her opinion there was a disabling health problem on the day of the test. If your documentation is accepted, there will be an oral examination of 1 ½ hours at a time decided by the instructor.

Calculator:

Please bring it to each class – it will make lectures easier to remember if you work problems as they are discussed. A calculator is essential for working exercises, tests and final exam. The Texas Instruments BA II PLUS calculator is one of the calculators allowed on the Society of Actuaries examinations; it has the financial functions that would be needed for this course and is recommended. All non-programmable calculators are allowed.

E-mail policy:

E-mails will only be answered if they are from a U of T address. When there are many e-mail requests, not all can be answered, but an answer to a common question will be posted on the blackboard.

Updates:

All the possible updates regarding to this course will be made in class and on blackboard.