Central Connecticut State University  
Department of Mathematical Sciences

Course Syllabus

ACTUARIAL MODELS I (Actl 465/565)

Fall 2021

Required Text: None

Instructor: Dr. Frank Bensics
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Office Hours: T/Th 10:45 - 12:15, M/W 3:00-4:00

Prerequisites: Stat 315 or equivalent

Students for Whom the Course is intended: This course is designed to meet the needs of students who intend to pursue an actuarial career and ultimately take the required professional exams. The material is currently covered on the LTAM the SOA and MAS I of the CAS.

Course Description: Lectures and problems related to the valuation of payments contingent upon survival or death. Specific topics deal with the concept of a survival model and its use in valuation of insurance and annuity premiums and reserves.

Course Objective: To provide the student with a working knowledge of the subject to the extent that they could construct a valuation model in cases where occurrence and timing of payments are uncertain.

The tentative schedule is given below. It is subject to change, but notification of any change in test dates will be given in advance

<table>
<thead>
<tr>
<th>WEEKS 1-3</th>
<th>Topics</th>
<th>Chapter</th>
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<tbody>
<tr>
<td></td>
<td>Survival Models</td>
<td>2</td>
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WEEKS 4-5     The Life Table      3
            Test 1
WEEKS 6-8     Insurance Benefits  4
WEEKS 9-11    Annuities          5
            Test 2
WEEKS 12-14   Premium Calculation 6

Final Exam

Evaluation

Tests 1, 2, 3  60%
Final Exam      40%

There is no predetermined grading scale.

University Policies:

1. You must take the final exam at the time specified in the course selection book.

2. If you need course adaptations or accommodations because of a disability (university), please make an appointment as soon as possible.

3. The last date to withdraw without special permission is November 19. Withdrawal forms are available in the Enrollment Center, Willard Hall. Cessation of attendance, notice to the instructor, or telephone calls to the Enrollment Center are not considered official notice of student's intention to withdraw from the course.