

Central Connecticut State University
Department of Mathematical Sciences

Course Syllabus

ACTUARIAL MODELS I (Actl 465/565)

Fall 2010

Required Text: MODELS FOR QUANTIFYING RISK: by:
Robin Cunningham, et. al.
ACTEX 2009, Third Edition

Instructor: Dr. Frank Bensics
Office: Marcus White Room 117
Phone: 832-2861
e-mail: bensicsf@ccsu.edu

Office Hours: M,T,W,Th 1:30 - 3:30

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 course MLC exam of both the SOA and Course 3 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

WEEKS 1-3	Topics	Readings
	Survival Models	Chapter 3
WEEKS 4-5	The Life Table	Chapter 4

	Test 1
WEEKS 6-8	Contingent Payment Models Chapter 5 (Insurance Models)
WEEKS 9-11	Contingent Payment Models Chapter 6 (Annuities)
	Test 2
WEEKS 12-13	Funding Plans for Chapter 7 Contingent Contracts
WEEKS 13-14	Contingent Contract ReservesChapter 8

Final Exam

Evaluation

Tests 1, 2	60%
Final Exam	40%

Graduate students will do various supplemental sections on an independent study basis.

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. Last day to withdraw is October 31. 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.