

COURSE: M339U (#57785) = 389U (#58092), *Actuarial Contingent Payments I*; TTh 12:30-1:45 in RLM 6.104. Fall 2009.

TEACHER: Jim Daniel, Director of Actuarial Studies, RLM 11.174, MTWTh 9-11 OR by appointment OR take your chances and drop in; 471-7168. E-mail as daniel@math.utexas.edu

PREREQUISITE: Grade of at least C in M362K probability, and grades of at least C or concurrent registration in both M341 (or 340L) linear algebra and ACF329=M389F interest theory.

GRADES: There will be three in-class exams—see attached schedule—that will count 28%, 27%, and 30%, respectively. There will not be a Final Exam. The average of your three Special Homework scores (see below) will count 15%. Plus/minus grading will be used. Students registered for M389U will have an additional question on each test.

TESTS & TEST-TAKING: Bring your own paper for each test. No books or notes allowed. Calculators of any type are allowed and are in practice necessary; I recommend that you purchase one of the approved calculators allowed at CAS/SoA exams in order to become familiar with it: Texas Instruments BA-35 or BA II Plus or TI-30X or TI-30Xa or TI-30X II. At each test, I'll distribute for you to use and return a copy of the tables distributed on the first day of class. Make-up exams usually will NOT be given; if you are going to miss an exam, you **MUST** have notified either me (or my voice mail) or the Math Department office **BEFORE** the test begins to have even a slight chance of getting a make-up. Sample tests will be distributed a week before each test to give you an idea of the type of questions to expect (though not the specific topics, of course).

HOMEWORK: I'll suggest some textbook or old exam problems each Tuesday and Thursday that you should work for practice, but they will not be collected. [Get the spring 2007 SoA Exam MLC from the Past Exam Questions and Solutions link at <http://www.soa.org/education/exam-req/edu-exam-m-detail.aspx> along with the SoA's sample questions (and solutions) for Exam MLC (available as Study Note MLC-09-08 from links on the Syllabus with Learning Objectives/Outcomes and Readings that is itself a link on <http://www.soa.org/education/exam-req/edu-exam-m-detail.aspx> again.] Three times during the semester (see the schedule) I'll hand out *Special Homework*, a set of problems like the most straightforward of those on SoA/CAS Exam MLC/3L; these will usually be due one week after assigned. Your solutions **WILL** be graded. Group work is OK.

NOTE: The University of Texas at Austin provides upon request appropriate academic accommodations for qualified students with disabilities. For more information, contact the Office of the Dean of Students at 471-6259, 471-6441 TTY.

MATERIAL & CALENDAR: The material to be covered consists of the numbered sections below from the **REQUIRED** texts: *Actuarial Mathematics (2nd Edition)* by Bowers *et alia* (denoted below by B) and my *Multi-state transition models with actuarial applications* study note (denoted below by D) that can be downloaded from the MLC section of www.soa.org mentioned previously. Many students find a study manual useful in their studying, but nothing will be assigned or suggested from them.

Tuesdays

8/25: No class
 9/1: B3.2-3
 8: B3.5
 15: B3.7-8, 9.3-4
 22: B9.6.1, 9.2; **sample out**
 29: *No class, Daniel gone*
 6: B9.5, 10.2
 13: B10.3-4-5
 20: B10.6; **HW2 out**
 27: D1.1-2; B4.2; **HW2 due**
 11/3: B4.2
 10: B4.2-3
 17: B4.3-4
 24: B11.1-2, 9.7 (A); **sample out**
 12/1: B9.9 (A); D2.1-2 (A); **HW3 due**

Thursdays

27: Orient; B3.2
 3: B3.3-4-5
 10: B3.6
 17: B9.3-4 (indep.); **HW1 out**
 24: B9.2, 9.3-4 (dep.); **HW1 due**
 10/1: **T1 thru B9.6.1 on 9/22**
 8: B10.2-3
 15: B10.5-6
 22: B9.9 (Pr); D1.1; **sample out**
 29: **T2 thru B9.9(Pr) on 10/22**
 5: B4.2
 12: B4.3
 19: B4.4, 11.1-2; **HW3 out**
 26: *Thanksgiving; no class*
 3: **T3 on remainder**

Good luck, and I hope you enjoy class!