

The University of Iowa
College of Liberal Arts and Sciences
Department of Statistics and Actuarial Science

22S:182 Life Contingencies II

9:30 - 10:20AM MTWThF

221 JH

Fall Semester 2007

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Office Hours: 10:30 - 11:30 AM, Monday, Tuesday & Friday, or by appointment

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Prerequisites: 22S:153 or 22S:193 **and** a grade of C or better in 22S:181

The textbook is *Actuarial Mathematics*, second edition (2000 or later printing). You will find it useful to bring it to every class. The course will review Chapters 3 to 7, and cover Chapters 8, 9, 10, and parts of Chapters 11, 15, 17 and 18; it will also cover the SOA study note <http://www.soa.org/files/pdf/M-24-05.pdf> Copies of *Solutions Manual to Actuarial Mathematics* by M. Gauger and K. Ostaszewski and *SOA Examination MLC Study Aids* by S. Cox and J. Pai are available at the IMU bookstore.

The Mathematics Library in Maclean Hall has the following three books on reserve: *Life Insurance Mathematics*, 3rd ed., by Hans U. Gerber, *Fundamentals of Actuarial Mathematics* by S. David Promislow, and *Actuarial Models: The Mathematics of Insurance* by Vladimir I. Rotor.

This is a 3-semester hour course; hence there will be 45 lectures. Between August 27 and November 5 (SOA Exam MLC will be given on Tuesday, November 6), there are ten weeks. There will be four (4) exams. The first exam, based on the handout distributed last May, will be given on August 28 (Tuesday). The dates for the other three exams are: September 15 (Saturday, 9:30 – 11:30AM, 112 MH), October 13 (Saturday, 9:30 – 11:30AM, 112 MH), and November 3 (Saturday, 9:30 – 11:30AM, 112 MH). Most of the exam questions will come from handouts, examples and exercises in the textbook, old SOA exams, and Appendix C of Gerber's book. **You are to use an official CAS/SOA calculator.**

Tentatively, the final grade (H.W. 10 % + Exams 9% + 27% + 27% + 27%) will be assigned as follows:

Undergrads F[0, 40); D–[40, 45); D[45, 50); D+[50, 55); C–[55, 60); C[60, 65);
C+[65, 70); B–[70, 75); B[75, 80); B+[80, 85); A–[85, 90); A[90, 95); A+[95, 100]

Graduate students F[0, 46); D–[46, 50.5); D[50.5, 55); D+[55, 59.5); C–[59.5, 64); C[64, 68.5); C+[68.5, 73); B–[73, 77.5); B[77.5, 82); B+[82, 86.5); A–[86.5, 91); A[91, 95.5); A+[95.5, 100]

Academic Fraud

All forms of plagiarism and any other activities that result in a student presenting work that is **not** his or her **own** are academic fraud. All academic fraud is reported to the departmental DEO and then to the Associate Dean for Academic Programs and Services. See Academic Fraud at http://www.clas.uiowa.edu/students/academic_handbook/ix.shtml for the complete policy.

Making a Suggestion or a Complaint

Students have the right to make suggestions or complaints and should first visit with the instructor, then with the course supervisor if necessary, and next with the departmental DEO. All complaints must be made as soon as possible. For more information visit, see Student Complaints at http://www.clas.uiowa.edu/students/academic_handbook/ix.shtml#5

Accommodations for Disabilities

Under the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973, instructors provide reasonable academic accommodations for qualified students with disabilities. Students seeking academic accommodations first register with Student Disability Services and meet with a counselor in that office who reviews documentation and determines eligibility for services. Students approved for accommodations arrange to meet privately with course instructors. Visit Student Disability Services at <http://www.uiowa.edu/~sds/>.

Understanding Sexual Harassment

Sexual harassment is reprehensible and will not be tolerated by the University. It subverts the mission of the University and threatens the well-being of students, faculty, and staff. Visit <http://www.sexualharassment.uiowa.edu/> for definitions, assistance, and the full University policy.

For Exam MLC, the following study note on Poisson processes may be useful
http://www.casact.org/library/studynotes/3_Poisson_2008.pdf

The M.S. Final (Comprehensive) Examination, based on 22S:181, 182 and 183, will be given during the Martin Luther King weekend in January. Old exams on life contingencies are on reserve in the Mathematics Library in MLH.

The syllabi, study notes, old exams, and sample exams of SOA Exams MLC and MFE can be found in <http://www.soa.org/files/pdf/edu-catfall07-exam-m.pdf> and <http://www.soa.org/education/resources/edu-multiple-choice-essay-examinations.aspx>

Past British actuarial examinations and their solutions can be found in http://www.actuaries.org.uk/Display_Page.cgi?url=/students/specimen_papers.xml

