MATH 3630: Long-Term Actuarial Mathematics (Spring 2026)

Instructor:

Stephen Camilli, FSA
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Office Hours/Availability: Office hours (subject to change) are Tuesday 9:15–10:45, Wednesday 9–12 and Thursday 9:15–10:45. As the semester progresses, based on feedback, I may switch some in-person office hours to virtual office hours on Monday/Friday. In addition, with pre-arrangement, I can offer virtual support during in-person office hours, if that is more convenient. Whenever possible, please let me know ahead of time when you will be coming. I will also have ample availability for office hours by appointment outside normally scheduled times. I strongly encourage students to take advantage of office hours. I observe a high correlation between attendance at office hours and academic improvement.

I will generally reply to e-mails within 24 hours during the week and on Mondays for an e-mail over a weekend. Should you need a reply faster than that, please state this in the subject line or call me on my cell phone.

Prerequisites:

Math 3160 (Probability) or Stat 3375 (Mathematical Statistics I); Math 2620 (Financial Mathematics I).
Math 3620 (Foundations of Actuarial Science) – strongly recommended, but not a formal requirement.

Course Website:

HuskyCT

Teaching Modality: In-Person

Required readings

Lectures and exercises in the class will be heavily based on the materials covered from the following textbook:

> *Actuarial Mathematics for Life Contingent Risks,* 3rd edition, by D. Dickson, M. Hardy, and H. Waters, Cambridge University Press, 2020. Coverage will be Chapters 1–6 (excluding 3.12.2,3.12.3) and Ch. 7 (Sections 1, 2.1-2.3, 3, 7, 8)

Solutions manual to the 3rd edition can be ordered on amazon.com. In addition, the Cambridge University Press site may provide additional resources and errata. Errata to the textbook may be found here: https://www.cambridge.org/files/7816/1459/0606/Errata_3ed.pdf . Errata to the solutions manual may be found here: https://www.cambridge.org/files/8716/1459/0719/Errata_sol_mnl_3ed.pdf
I encourage looking at the errata, as there are some key changes listed.
Details of a tentative class lecture program are attached as appendix

Additional suggested references

The following textbooks and resources may also be helpful for those preparing for Exam FAM or ALTAM:
ASM Study Manual for FAM, by Weishaus
*ACTEX Study Manual for FAM***,** by Li and Ng
The Infinite Actuary FAM Online Course
GOAL Question Bank (ACTEX/ASM)
ADAPT (Coaching Actuaries)
Models for Quantifying Risk, 6th Ed., by Camilli, Duncan and London

Course Assessments	**Weight**
Homework/Quizzes (lowest score dropped)	***20%***
Exam 1 (Ch 1-3)	***20%***
Exam 2 (Ch 1-5)	***20%***
Final Exam (Ch 1-7)	***35%***
Maximum (Exam 1, Exam 2, Final Exam)	***5%***

--This allocates 5% of your grade to your highest scoring assessment.

Grading Scale:

Grade	Letter Grade	GPA
93-100	A	4.0
90-92	A-	3.7
87-89	B+	3.3
83-86	B	3.0
80-82	B-	2.7
77-79	C+	2.3
73-76	C	2.0
70-72	C-	1.7
67-69	D+	1.3
63-66	D	1.0
60-62	D-	0.7
<60	F	0.0

Final examination

Students are required to be available for their exam during the stated final exam time. If you have a conflict with this time, you must visit the Dean of Students Office to discuss the possibility of rescheduling this exam.

Please note that vacations, previously purchased tickets or reservations, social events, misreading the exam schedule and over-sleeping are not viable excuses for missing a final exam. If you think that your situation warrants permission to reschedule, please contact the Dean of Students Office with any questions. Thank you in advance for your cooperation.

Cell Phone Usage

Please turn off or put your phone on "airplane" or "do not disturb" mode and keep in your backpack unless needed for emergencies. Many studies have found a cell phone to be an impediment to learning in class. Cell phone use is a distraction to all members of the class—especially yourself. In addition, cognitive and behavioral scientists have found that electronic devices can erode ability to concentrate. Notably, the ability to focus is highly correlated with educational and occupational success. In addition, many college students report feeling addicted to their cell phones. **Consider this class to be an oasis from your device.** Please read the following article to understand one reason I have instituted this policy: https://psmag.com/social-justice/presence-smart-phone-lowers-quality-person-conversations-85805. This article states that the mere presence of a cell phone in the line of sight, lowers the quality of conversations.

Technical Help with Access to Online Aspects of Course

Technical and Academic Help provides a guide to technical and academic assistance.

This course uses the learning management platform, HuskyCT. If you have difficulty accessing HuskyCT, you have access to the in person/live person support options available during regular business hours through the Help Center. You also have 24x7 Course Support including access to live chat, phone, and support documents.

Classroom Expectations

As an upper-level course, this is designed to help prepare you for the workplace and a professional career. It is expected that in all electronic communications, through e-mail, in discussion forums and in the classroom itself, that communication will be professional and courteous.

Husky Study Groups

In the past, some students have gained a lot from study groups. Should you be interested in forming one, you can go here for more information: https://nexus.uconn.edu/secure_per/studygroups/index.php

Policy Against Discrimination, Harassment and Related Interpersonal Violence

The University is committed to maintaining an environment free of discrimination or discriminatory harassment directed toward any person or group within its community – students, employees, or visitors. Academic and professional excellence can flourish only when each member of our community is assured an atmosphere of mutual respect. All members of the University community are responsible for the maintenance of an academic and work environment in which people are free to learn and work without fear of discrimination or discriminatory harassment. In addition, inappropriate amorous relationships can undermine the University's mission when those in positions of authority abuse or appear to abuse their authority. To that end, and in accordance with federal and state law, the University prohibits discrimination and discriminatory harassment, as well as inappropriate amorous relationships, and such behavior will be met with appropriate disciplinary action, up to and including dismissal from the University. Additionally, to protect the campus community, all non-confidential University employees (including faculty) are required to report sexual assaults, intimate partner violence, and/or stalking involving a student that they witness or are told about to the Office of Institutional Equity. The University takes all reports with the utmost seriousness. Please be aware that while the information you provide will remain private, it will not be confidential and will be shared with University officials who can help.

Sexual Assault Reporting Policy

To protect the campus community, all non-confidential University employees (including faculty) are required to report assaults they witness or are told about to the Office of Diversity and Equity under the Sexual Assault Response Policy. The University takes all reports with the utmost seriousness. Please be aware that while the information you provide will remain private, it will not be confidential and will be shared with University officials who can help.
More information is available at sexualviolence.uconn.edu.

Statement on Absences from Class Due to Religious Observances and Extra-Curricular Activities

Faculty and instructors are strongly encouraged to make reasonable accommodations in response to student requests to complete work missed by absence resulting from religious observances or participation in extra-curricular activities that enrich their experience, support their scholarly development, and benefit the university community. Examples include participation in scholarly presentations, performing arts, and intercollegiate sports, when the participation is at the request of, or coordinated by, a University official. Such accommodations should be made in ways that do not dilute or preclude the requirements or learning outcomes for the course. Students anticipating such a conflict should inform their instructor in writing within the first three weeks of the semester, and prior to the anticipated absence, and should take the initiative to work out with the instructor a schedule for making up missed work. For conflicts with final examinations, students should contact the Office of the Dean of Students. Faculty and instructors are also encouraged to respond when the Counseling Program for Intercollegiate Athletes (CPIA) requests student progress reports. This will enable the counselors to give our students appropriate advice.

Academic integrity

A fundamental tenet of all educational institutions is academic honesty; academic work depends upon respect for and acknowledgement of the research and ideas of others. Misrepresenting someone else's work as one's own is a serious offense in any academic setting and it will not be condoned. **This semester, my standard penalty for academic misconduct will be an F in the course.**

Academic misconduct includes, but is not limited to, providing or receiving assistance in a manner not authorized by the instructor in the creation of work to be submitted for academic evaluation (e.g. papers, projects, and examinations); any attempt to influence improperly (e.g. bribery, threats) any member of the faculty, staff, or administration of the University in any matter pertaining to academics or research; presenting, as one's own, the ideas or words of another for academic evaluation; doing unauthorized academic work for which another person will receive credit or be evaluated; and presenting the same or substantially the same papers or projects in two or more courses without the explicit permission of the instructors involved.
A student who knowingly assists another student in committing an act of academic misconduct shall be equally accountable for the violation, and shall be subject to the sanctions and other remedies described in *The Student Code*.

Code of Conduct for candidates
This course is designed for students seeking to obtain a credential from the Society of Actuaries (SOA) or the Casualty Actuarial Society (CAS). Actuarial Candidates, as defined by these organizations, must adhere to the Code of Conduct for Candidates (SOA) and Code of Professional Ethics for Candidates (CAS).

Appendix: Tentative Class Schedule

Changes to quiz and/or test dates will be posted in the Announcements section of our HuskyCT class site.

Week of	**Tuesday**	**Thursday**
January 19	Ch 1 / Intro	Ch 2
January 26	Ch 2	Ch 2
February 2	Ch 2	Quiz 1/ Ch 3
February 9	Ch 3	Ch 3
February 16	Ch 3 / 4	**Exam 1**
February 23	Ch 4	Ch 4
March 2	Ch 4	Ch 4
March 9	Ch 5	Quiz 2 /Ch 5
March 16	Break	Break
March 23	Ch5	Ch5
March 30	Ch 5	**Exam 2**
April 6	Ch 6	Ch 6
April 13	Ch 6	Ch 6
April 20	Quiz 3 (?) /Ch 7	Ch 7
April 27	Ch 7	Ch 7/ Review
May 4	**Final Exam**	