

Math 419C Actuarial Mathematics III

Spring 2015

TuThF 11:00 – 11:50 Hertz 104

Instructor: Cen-Tsong Lin

Office: Bouillon 108B, Tel: 963-2842, e-mail: ctl@cwu.edu

Office Hours: 9 – 9:50, Monday – Friday or by appointment

Prerequisite: Math 419B

Course goals: The goal of this course is to develop students' knowledge of the theoretical basis of certain actuarial models and the application of those models to insurance and other financial risks. After completing this sequence (Math 419A/B/C), students will be able to apply their knowledge to price and evaluate the risk for traditional insurance and annuities products.

Required Text:

Actuarial Mathematics for Life Contingent Risks, 2nd Edition, 2013, Dickson, D., Hardy, M., Waters, H., Cambridge University Press.

Course outlines:

- Chapter 10 Pension mathematics (omit 10.7)
- Chapter 11 Yield curves and non-diversifiable risk (omit 11.5)
- Chapter 12 Emerging costs for traditional life insurance
- Chapter 13 Participating and universal life insurance

Grading Policy

Three tests: 100 points each tentatively on 4/17, 5/8 and 5/29

Homework assignments:

Final exam: 125 points 10:00 – 12:00, Thursday, 6/11/2015

Total 425 points + homework assignment points

Note: The due day of homework assignment is one week after it is assigned. This syllabus, homework assignments and handouts are also available on Canvas system

Important online resource: <https://www.soa.org/education/exam-req/edu-exam-m-detail.aspx>