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Life Contingencies

MATH-385*

MATH 385 is an introductory level course to life contingent mathematics. This course is geared towards students with an interest in the actuarial profession. A portion of the material covered is based on Course 3 of the Society of Actuaries examination. It will be left to the instructor's discretion as to how class time will be conducted (i.e. class lectures, self-study, problem solving approach, ...).

Textbook: *Actuarial Mathematics*, 2nd Edition

by Bowers, Gerber, Hickman, Jones and Nesbitt (The Society of Actuaries)

Prerequisite: MATH-120, 384* *and* STAT-251* *or* permission of the instructor

Instructor: John Christopoulos (Empire Life Insurance Co.)

Evaluation:	Final examination	50%
	Mid-Term Test	30%
	Assignments	20%

Topics:

- Survival Analysis
- Life Insurance
- Life Annuities
- Benefit Premiums
- Benefit Reserves