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