11.1.2 Other Mathematics Options Required and Suggested Courses

Actuarial Science Option

**Required:** Math 360, 416, 423, and 443

**Suggested:** Acctg 230 and 231, EconS 101 and 102, Fin 325 and 350, and Math 448 and 456 provide additional background for actuarial exams. A new course, Math 490: Statistical Applications in Insurance, provides additional preparation for the first two actuarial exams.

Applied Mathematics Option

**Required:** At least three upper-division courses in mathematics that form a coherent program within the Applied Mathematics option as approved by your advisor.

Three suggested tracks are:

- **Operations Research**
  **Required:** Math 364 and two of Math 325, 416, 448, 453, 456, or 466.

- **Computational Math**
  **Required:** Cpt S 122; Math 364, 448 and one of Math 416, 440, or 466.

- **Mathematical Modeling Option**
  **Required:** Three of Math 340, 415, 440, 448, and 486. Two of Math 364, 416, 423, or 441 are also recommended. A minor in an applied subject area, chosen in consultation with an advisor, is also strongly recommended.

Theoretical Mathematics Option

**Required:** Three of Math 302, 325, 403, 415, 441, or 453.