

## **Mathematics Electives Guidelines**

The difference between the concentrations is the list of Mathematics Elective courses you may take. The concentration you choose will be based on your graduation goals. These are guidelines to be discussed with your advisor, because there are no hard and fast rules. For example, if you did the Theoretical Concentration then the National Security Agency would still likely hire you – they love pure mathematicians.

- If undecided, then the **General Concentration** is the best option.
- If you plan to enter industry or graduate school in a non-statistical, non-theoretical area, then the **Applied Concentration** is the best choice.
- If you plan to enter industry or graduate school in either a statistics or actuarial related field, then the **Statistics Concentration** is your best option.
- If you plan to enter a graduate program in a pure (theoretical) area of mathematics, then the **Theoretical Math Concentration** is the best choice.

**Applied Concentration:** Take 3301, 3321, 4302, 4315 and two from 3311, 3315, 3325, 4307, 4313, 4316, 4317, 4318, 4319, 4360, 4380.

**Statistics Concentration:** Take 3325, 4313, 4317, 4319, 4380 and one from 3301, 3321, 4302, 4310, 4315, 4316, 4318, 4330.

**Theoretical Concentration:** Take 4310, 4330, 4340, 4326 and two from 3301, 3311, 3315, 3330, 3350, 3351, 4302, 4307, 4315, 4380.

**General Concentration:** Any six Mathematics Electives from any concentration above.

**Mathematics Education Concentration:** Choose one course from any of the three concentrations above.

**Bachelors of Arts:** Take any four electives from any concentration above.