

## **G E 413: Prob. & Stat. Analyses in Eng. Design**

### **[Geology & Geological Engineering](#)**

Introduction to probability, statistics, uncertainty, and reliability. Application of common continuous and discrete probability distributions. Design under uncertainty and elementary decision analysis. Simulation of random variables. Applications in natural and man-made materials, hydrologic and geological conditions and other natural processes, and engineering design.

3 Credits

### **Prerequisites**

- [Math 262: Unified Calculus & Analytic Geometry II](#) (Minimum grade: C)
- Pre-Requisite: 24 Earned Hours

### **Instruction Type(s)**

- Lecture: Lecture for G E 413

### **Subject Areas**

- [Geological/Geophysical Engineering](#)

