



### **Course Description**

#### **GRA2156C | User Interface and Experience Design | 4.00 credits**

In this intermediate-level course, the student will examine the design and creation of mobile applications. The student will create visual designs for mobile apps, as well as analyze how to build and distribute them. The student will apply skills and knowledge toward creating portfolio-ready design projects. Prerequisites: GRA1751, GRA1754.

### **Course Competencies:**

**Competency 1:** The student will design and build mobile apps during guided lessons and assignments by:

1. Brainstorming, sketching, and creating storyboards
2. Building mobile apps using industry-standard mobile app creation software
3. Designing and customizing the app's desktop icon and launch screen
4. Recording and incorporating audio and video in the app
5. Incorporating countdown timers
6. Integrating geolocation and finding locations on online maps
7. Creating functioning games, AR apps, and emoji apps

**Competency 2:** The student will evaluate their designs by:

1. Critiquing their work as well as that of their classmates
2. Testing the apps on actual and virtual devices
3. Resolving issues and debugging errors

**Competency 3:** The student will publish their apps to the app stores of the two major platforms by:

1. Analyzing how to enroll in the app store's development program and follow their guidelines
2. Specifying metadata, previews and descriptions, and pricing
3. Uploading the app archive to the platform's app store

### **Learning Outcomes:**

- Communicate effectively using listening, speaking, reading, and writing skills
- Solve problems using critical and creative thinking and scientific reasoning
- Use computer and emerging technologies effectively
- Demonstrate an appreciation for aesthetics and creative activities