

**J. Sargeant Reynolds College  
Course Content Summary**

**Course Prefix and Number:** ITP 245

**Credits:** 4

**Course Title:** Developing User Interfaces

**Course Description:** Provides instruction in the creation of computer application user interfaces that offer intuitive navigation and informative design for web, mobile, and desktop applications, and other technologies. Prerequisite or Co-requisite: ITP 236 or school approval. Lecture 4 hours per week.

**General Course Purpose:** A course for students who build user applications for web sites, mobile devices, and desktop applications.

**Course Prerequisites and Co-requisites:**

Prerequisite or Co-requisite: ITP 236 or school approval

**Student Learning Outcomes:**

Upon completing the course, the student will be able to

- a. Design and create positive user interface experiences for various platforms;
- b. Use a three-tier architecture model for applications;
- c. Apply business layer assemblies to user interfaces; and
- d. Use scaffolding code-generating techniques to interact with data models.

**Major Topics to Be Included:**

- a. User interface concepts and fundamentals
- b. ASP.NET for traditional web development
- c. Model-View-Controller for web development with a clear separation of concerns
- d. Windows Presentation Foundation for desktop applications
- e. Other development platform options

**Date Created/Updated (Month, Day, and Year):** October 9, 2018