

**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): August 14, 2018