

J. Sargeant Reynolds Community College  
Course Content Summary

Course Prefix and Number: ITP 100

Lecture 3 hours per week.

General Course Purpose : This course is designed to introduce students to programming using both structured programming and object-oriented programming. Students will use pseudocode, flowcharts, and a high-level programming language will NOT be used.

Course Prerequisites and Co-requisites:  
None

Student Learning Outcomes :  
Upon completing the course, the student will be able to:  
a. Identify programming terminology;  
b. Describe the structured design process;  
c. Illustrate structured design using flowcharts;  
d. Design the core concepts of object-oriented programming;  
e. Understand and design an event-driven application;  
f. Understand system modeling using UML.

Major Topics to Be Included :  
a. Introduction to Computers and Programming  
b. Decision Structures  
c. Repetition Structures  
d. Arrays  
e. File Handling  
f. Modulation Techniques  
g. Object-Oriented Programming  
h. GUI Applications  
i. Unified Modeling Language

Date Created/Updated (Month, Day, Year)