J. Sargeant Reynolds Community College  
Course Content Summary

Course Prefix and Number: CSC 201  
Credits: 4

Course Title: Computer Science I

Course Description: Introduces algorithm and problem-solving methods. Emphasizes structured programming concepts, elementary data structures, and the study and use of a high level programming language. Lecture 4 hours per week.

General Course Purpose:

Course Prerequisites and Co-requisites:  
None

Student Learning Outcomes:  
Upon completing the course, the student will be able to  
a. Determine if expressions and statements are syntactically correct in a high level language;  
b. Determine the semantics of a program in a high level language;  
c. Write a general algorithm solution of a problem in pseudocode that demonstrates a grasp of structured programming; and  
d. Write correct program of 200 to 500 lines of moderate difficulty in a high level language determining knowledge in course content topics.

Major Topics to Be Included:  
a. Computers and computer programs  
b. Top-down design of algorithms, structures, and objects  
c. Control structures in a high level language  
d. Simple data types in a high level language  
e. Arrays in a high level language  
f. Proper program methodology and debugging techniques

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