Date Prepared: August 10, 2001 ☐ New ☒ Revised
(Check One)

Effective Date: Fall 2001

COURSE OUTLINE

1. COURSE PREFIX and NUMBER: **CSC 201** CREDIT HOURS: 4

2. COURSE TITLE: **Computer Science I**

3. PREREQUISITES: MTH 07 or MTH 166, or 4 units of high school math. Corequisite CSC 100 or equivalent and MTH 173 or equivalent or divisional approval.

4. 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.

5. CONTENT: (Major Headings)

   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

6. GENERAL COURSE OBJECTIVES:

   Upon successful completion of 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.
   d. Write correct program of 200 to 500 lines of moderate difficulty in a high level language determining knowledge in course content topics.