Date Prepared: August 17, 2001 ☐ New ☒ Revised
(Check One)

Effective Date: Fall 2001

COURSE OUTLINE

1. COURSE PREFIX and NUMBER: **CSC 202** CREDIT HOURS: 4

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

3. PREREQUISITES: Prerequisite CSC 201. Corequisite MTH 174.

4. COURSE DESCRIPTION: Examines data structures and algorithm analysis. Covers data structures (including sets, strings, stacks, queues, arrays, records, files, linked lists, and trees), abstract data types, algorithm analysis (including searching and sorting methods), and file structures.

5. CONTENT: (Major Headings)

   a. Records
   b. Stacks
   c. Queues
   d. Linked lists
   e. Recursion
   f. Binary Trees
   g. Sorting and searching
   h. Vocabulary and principles of programming, data design, and debugging

6. GENERAL COURSE OBJECTIVES:

   Upon successful completion of the course, the student will be able to:

   a. Complete the study of data types in a high-level language.
   b. Understand the notion of abstract data types and various implementations.
   c. Understand recursion and advanced programming techniques.
   d. Understand the various applications of data structures.
   e. Understand the general principals of programming.