A. Course Description

Credits: 3

Prerequisites: ICS 141 Programming with Objects or equivalent programming experience or instructor's consent.

Lab Hours/ Weeks: Corequisites: None

Lecture Hours/ Week :

MnTC Goals: None

This course is designed to provide a fast-paced exposure to the C programming language for students majoring in a computer-related discipline. The following topics are briefly reviewed using C syntax: looping, selection, variables, scope rules, functions and pass-by-value arguments. New topics include pass-by-address arguments, formatted and unformatted I/O, user defined types (enum, struct, union), preprocessing directives, file handling, pointers, pointer arithmetic, string manipulation and selected library functions.

B. Course Effective Dates: 08/01/1998 - 09/05/1999 09/06/1999 - Present

C. Outline of Major Content Areas:

See Course Description for major content areas.

D. Learning Outcomes (General)

1. Make effective use of basic constructs such as looping, selection, variables, scope rules, and functions with arguments.
2. Use features such as preprocessing directives and bit operators to solve simple problems in applications such as system programming.
3. Use structs and unions to craft efficient solutions.
4. Write string and character processing code using arrays, pointers, and library functions.
5. Employ standard C coding conventions, proper programming style, and appropriate documentation conventions.
6. Manipulate external data streams using formatted and unformatted I/O.

E. Learning Outcomes (MN Transfer Curriculum)

This contains no goal areas.

G. Special Information

Note: Students are responsible to both be aware of and abide by prerequisites for ICS courses for which they enroll, and will be administratively dropped from a course if they have not met prerequisites.