Course Outline

Course Title: C Language
Submitted By: B. Phillips
Semester Course Prefix and Number: CSCI 2471
Approval Date: 
Old Quarter Course Prefix and Number: CSCI 210
Revision Date: Feb. 2002

Number of Credits: 3
Semester(s) Offered:
Negotiated Class Size:
Number of Lecture Credits: 2
Number of Lab Credits: 1
Number of Lab Hours: 1
Number of Studio/Demonstration/Internship Credits:

Course Purpose Code:

0 – Developmental Courses
1 – Non-transferable, General Education
2 – Technical course related to career programs
3 – College course which has the primary goal of applying certain concepts (e.g. vocal ensemble)
4 – Other college course not considered a part of general education (MNTC) e.g. computer science, health, physical education
5 – Course which is intended to fulfill the Minnesota Transfer Curriculum (MNTC) requirements.
6 – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

Catalog Description:
Fundamentals of C language programming, data types and declarations, assignments, addresses, and pointers. This course includes conditional execution, flow control, functions and modularity, complex data types: arrays, strings and structures, and data files.

Prerequisites and/or recommended entry skills/knowledge:
Course Prerequisite(s): CSCI 1466 or consent of instructor
Reading Prerequisite: None
Composition Prerequisite: None
Mathematics Prerequisite: None

Career Programs and Transfer Majors Accessing this Course:
CSCI majors, Computer Programming AAS, Diploma, and Certificate students

Minnesota Transfer Curriculum Goal(s) partially met by this course if applicable: Notes: No more than two goals may be met by any one course. (Curriculum Committee review and the Chief Academic Officer’s approval are required).

0. X None
1. Communications
2. Critical Thinking
3. Natural Sciences
4. Mathematical/Logical Reasoning
5. History and the Social and Behavioral Sciences
6. The Humanities and Fine Arts
7. Human Diversity
8. Global Perspectives
9. Ethical and Civic Responsibility
10. People and the Environment

Form Approved 3/8/02 CSCI 2471
Learning outcomes, including any relevant competencies listed in the Minnesota Transfer Curriculum:
The student will demonstrate the basics of C language programming through a series of examples and assignments that use control structures (conditionals, loops), basic data types (scalar variables, arrays and strings, pointers), and procedural abstractions (functions, code interfaces).

Student assessment methods:
Unit tests, lab exercises

Use of instructional technology (includes software, interactive video and other instructional technologies):
C compiler required

Outline of the major course content:
Fundamentals of C language programming
Data types and declarations
Conditional execution, flow control, functions and modularity
Complex data types

Additional special information (special fees, directives on hazardous materials, etc.)

Transfer Information: (Please list colleges/majors that accept this course in transfer.)

Approvals:

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