Course Title: Computer Science II
Submitted By: R. Booth
Semester Course Prefix and Number: CSCI 2482
Approval Date:
Old Quarter Course Prefix and Number: Revision Date: Feb. 2002

Number of Credits: 4 Number of Lecture Credits: 4 Number of Lab Credits: 4 Number of Lab Hours: 
Semester(s) Offered:
Negotiated Class Size:

Course Purpose Code:

0 – Developmental Courses
1 – Non-transferable, General Education
2 – Technical course related to career programs
X 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.
9 – Continuing Education/Customized Training specialized credit course (not occurring in 0-5)

Catalog Description:
Continuation of C++, object oriented design, object oriented programming overloading, template classes,
inheritance, recursion, exception handling, software reuse. A final project using the concepts that have
been covered will be a course requirement.

Prerequisites and/or recommended entry skills/knowledge:
Course Prerequisite(s): CSCI 2481, Computer Science I (formerly C++ Programming I)
Reading Prerequisite: None
Composition Prerequisite: None
Mathematics Prerequisite: None

Career Programs and Transfer Majors Accessing this Course:
Computer Programming

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
Learning outcomes, including any relevant competencies listed in the Minnesota Transfer Curriculum:

Students will learn about:
1. algorithm analysis: space and time considerations.
2. data abstraction
3. linked lists.
4. stacks and queues
5. recursion
6. binary trees
7. more powerful sorts and searches

Student assessment methods:
Lab exercises
Exam tests

Use of instructional technology (includes software, interactive video and other instructional technologies):
A computer with Microsoft C++ 6.0.

Outline of the major course content:
Software engineering principles with algorithm analysis and data abstraction
Linear data structures with linked lists, stacks, and queues
Recursive data structures and binary trees
Advanced sort and search algorithms

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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<th>Representative Signatures</th>
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