I. Course Number and Title:

CST 112 Introduction to Programming

II. Catalog Description:

This course introduces fundamental programming principles to beginners. Emphasis is placed on algorithm development, structured programming techniques, flowcharting, coding, debugging and libraries. It discusses programming concepts such as variables, conditionals, loops, functions, objects, and arrays. Program output may include graphical elements with images, animation and visualization. The course is designed as a place where many ideas and techniques can mix and is therefore appropriate for a wide audience that includes programmers, as well as people interested in graphical design or analytic fields (science, mathematics, economics, etc.). Prerequisite: MAT007 or equivalent. Recommended: prior computing experience or completion of CST101.

III. Learning Outcomes: (Main concepts, principles, and skills you want students to learn from this course) The Learning Outcomes listed here should be considered the minimum core outcomes for the course. Many other learning outcomes may also be a part of the learning experience within the course.

Upon completion of this course, students will be able to:

Using a programming language chosen by the residing departments of the computer science and information technology disciplines, the student will learn computer programming principals. Upon completion of the course, the student will be able to:

1. Use programming syntax rules and built-in functions.
2. Build program controls, such as: sequence, selection, and repetition.
3. Write program modules, such as procedures and functions.
4. Create complex data structures, such as arrays and files.

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Name of Discipline Lead: Ben Chen
Discipline Vote:
For____6_______ Against_______0___ Abstention_____1_____
Date of Vote: __12/08/2011_____
    _ RDB 12/9/2011 ________Certification of Vote by Associate Dean for General Education
    _ TG 12-19-11 _________Certification of Vote by College Curriculum Chair
*These statements must appear verbatim in course outlines. However, additional outcomes may be added to individual course outlines at the instructor’s discretion.

Revised 1/10