

**Course Number:** CSC 211

**Course Title:** Introductory Software Laboratory

**Number of Credits:** 1

**Schedule:** Two laboratory hours per week.

**Grading:** Credit/No credit

**Prerequisite:** None

### **Catalog Description**

Hands on exercises in programming, and use of basic SW development tools. Covers procedural, object oriented, C++ and Java programming. Strongly recommended for CSC 210 students and others needing hands-on experience. Students are encouraged to bring their own laptops.

### **Expanded Description**

Environment setup (MacOS X, Linux, Windows/Cygwin)

Input/output

Control structures

Arrays/strings

Files

Functions/classes

Compiling with makefiles

Debugging and testing

### **Course Objectives and Role in Program**

The objective of this course is:

- To provide hands-on programming activities to supplement and amplify the material covered in CSc 210, 209, 203 or 213.

Students will work through a number of programming exercises during each lab session. 211 was designed when the department perceived a need for students to have more hands-on programming activities to supplement the assignments in early programming courses. It is not required of majors, but serves as a support lab for 210, 209, 203 and 213.

### **Learning Outcomes**

At the end of this course students will be able to

- Write simple programs or modules in C, C++ or Java
- Test simple programs and debug them

### **Method of Evaluation**

Student learning will be evaluated on the basis of attendance at lab sessions

### **Required Textbooks**

None; most materials on website: <http://thecity.sfsu.edu/~csc211/>

**Modified by:** W. Hsu

**Last Revision Approved:** November 10, 2009