1. General Information

The generic part of the syllabus contains detailed information about prohibiting cheating, due dates and times, submitting assignments, and verification of the submit. Read it carefully, as you will be held responsible for it.

**Directory:** The directory `/afs/cats.ucsc.edu/courses/cmps109-wm/` and its subdirectories contain all assignments, handouts, examples, old exams, etc.

**Assignments:** All assignments must be submitted electronically and must work on the Unix servers (`unix.ucsc.edu`).

**Due Dates:** Due dates are announced in the `README` files in the course directory. You must frequently check the `README`.

**Cheating:** *Cheating will not be tolerated. See the section on cheating in the generic part of the syllabus.*

**Grades:** To pass the course, both the programming component and the testing component will be taken into consideration. Failing either component may be cause to fail the course. Your final grade will be computed as follows:

- Programming assignments: $5 \times 10\% = 50\%$
- Midterm and final tests in class: $2 \times 25\% = 50\%$
- Summer quarter does not have an exam week.

2. Course Description from Catalog

**CMPS-109. Advanced Programming.** An introduction to object-oriented techniques of software development including data abstraction, inheritance, polymorphism, and object-oriented design. Extensive practice using a computer to solve problems, including construction of graphical user interfaces and a multithreaded client/server application. **Prerequisites:** CMPS-012B/M or CMPS-013H.

3. Textbooks and References

Only the first textbook (by Stroustrup) is listed as “required”. The others are optional references.

(1) Bjarne Stroustrup: *Programming Principles and Practice Using C++*, second edition. Addison-Wesley, 2014. ISBN 0-321-99278-4. This is an elementary textbook for a first course in C++. The previous edition will also work, or any other C++ textbook you may already have. It is strongly recommended that you read a book advertising the use of C++11.

(2) The C++ Resources Network: Use this site to find specific information about various classes in the standard library.

http://www.cplusplus.com/
4. Detailed Syllabus.

This course is about programming in C++, including C++11. Prior programming knowledge of ANSI C is assumed.


(4) Input and output streams. User-defined I/O operators. Formatting I/O.


(6) Vectors and arrays. Copy and move constructors, and copy and move assignments. Destructors. Explicit constructors.


(11) Miscellaneous other topics: TBA.

5. Students with Disabilities

If you qualify for classroom accommodations because of a disability, please submit your Accommodation Authorization Letter from the Disability Resource Center (DRC) to me as soon as possible, preferably within the first week of the quarter. Contact DRC by phone at 831-459-2089 or by email at drc@ucsc.edu for more information.

6. Pair Programming

You may do pair programming if you choose. You are responsible for choosing a partner with whom you can work. Read the guidelines in the directory pair-programming/.