

**University of Denver  
COMP 2355  
System Programming  
Winter 2013**

**Professor:** **Dr. Nathan Sturtevant**  
**John Greene Hall 119**  
[sturtevant@cs.du.edu](mailto:sturtevant@cs.du.edu)  
**OH: TuTh4-5, Fr10:30-12:00 or by appointment**

**Teaching Assistant** **Aaron Kraft**  
**John Greene Hall 329**  
**OH: TR 12:00-2:00**

**Will Mitchell**  
**John Greene Hall 329**  
**OH: MW 2:00-4:00 and TR 4:00-5:00**

**Course Web Page:** <http://www.cs.du.edu/~sturtevant/w13-sys.html>

**Lecture Room & Time:** **Knudson Hall 309**  
**TuTh 2:00-3:50pm**

**Course Description:** An introduction to C/C++ programming emphasizing advanced features in C++ including templates, operator overloading, polymorphism and design patterns. Students will use a modern IDE and cover topics such as classes, objects, templates, types, pointers, constants, operators, scoping, static typing, memory allocation, I/O and the Standard C Library, operator overloading, polymorphism, exceptions, templates, generic programming and the Standard C++ Library, including containers and algorithms. Students are expected to have a solid foundation in imperative and object-oriented programming as imparted from COMP 2673, including an understanding of linked-lists, trees, sorting, and arrays.

**Course Prerequisites:** COMP 2673 or equivalent.

**Required Textbook:**

C++ Primer Plus, 6th edition  
Stephen Prata

**Grade Evaluation:**

<b><u>COURSEWORK</u></b>	<b><u>WEIGHTING</u></b>
<b>Labs (1.5% each - must do 15)</b>	<b>22.5%</b>
<b>Midterm</b>	<b>20.0%</b>
<b>Homework (4 x 8% each)</b>	<b>32.0%</b>
<b>Final</b>	<b>25.0%</b>
<b>Course Participation</b>	<b>0.5%</b>

Final grades will be determined on a (relative) curve.

**LATE WORK:** Late work will not be accepted.

**EXAMS:** Electronic equipment (such as a calculator, MP3 player, or cell phone) should not be brought to exams.

**CELL PHONES:** Cell phones are to be turned off/silent during lectures.

**LAPTOP COMPUTERS:** Laptops should be brought to each lecture. Approximately half of each class will be devoted to lab time and require the use of your laptop. Short assignments will be given in each lab and will be due at midnight the same day.

**HONOR CODE:** All members of the University of Denver are expected to uphold the values of Integrity, Respect, and Responsibility. These values embody the standards of conduct for students, faculty, staff, and administrators as members of the University community. Our values are defined as:

- Integrity: acting in an honest and ethical manner;
- Respect: honoring differences in people, ideas, and opinions;
- Responsibility: accepting ownership for one's own conduct.

You may discuss your work with other students, but any work submitted should be your own. If you work with other people, either in or out of the class, you should acknowledge their help on your homework assignment.

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## Other Course Information

### Topics:

The course will roughly cover the material in the textbook, but will cover some material not in the textbook (threads).

### Important dates:

February 7, midterm

March 14, Final

### Useful links:

C++ FAQ

<http://www.parashift.com/c++-faq-lite/>

Many topics in this course are also covered here

STL - Standard Template Library

<http://www.cplusplus.com/reference/>

[http://www.sgi.com/tech/stl/table\\_of\\_contents.html](http://www.sgi.com/tech/stl/table_of_contents.html)

SVN - Source control

<http://tortoisesvn.net/>

<http://svnbook.red-bean.com/>

Programming help

<http://stackoverflow.com/>