# CIS 22B: Intermediate Programming Methodologies in C++
## Mon-Wed --- Summer 2015

Instructor: **Hoang M. Nguyen**

E-mail: **cis.deanza@gmail.com**

Class website: https://catalyst.deanza.edu/moodle/course/view.php?id=1625

Class Time: **Lecture          06:00PM - 09:50PM      MW      AT311**

Online Hours: **Mondays & Wednesdays 3:30PM to 4:45PM**.

Prerequisites: CIS 22A: Beginning Programming Methodologies in C++

Course Description: http://ecms.deanza.edu/outlineprogresspublic.html?catalogID=12396

Course Learning Outcomes:      Upon completion of the class, the students will be able to:
- Create algorithms, code, document, debug, and test intermediate level C++ programs
- Design solutions using proper design methodology
- Learn and apply intermediate level C++ constructs, data structures and object-oriented programming.

Required Textbook: **Starting Out with C++: From Control Structures through Objects**
8th edition, by Tony Gaddis. Addison-Wesley.
ISBN-10: 0133769399   ISBN-13: 978-0133769395

Grading Policy:
- Final Exam          20%
- Midterm             20%
- Programs            60%

Grade's Scale:

| A+ | A | A- | B+ | B | B- | C+ | C | D | F |
|---|---|---|---|---|---|---|---|---|---|
| 99+% | 92-98% | 90-91% | 88-89% | 82-87% | 80-81% | 78-79% | 70-78% | 60-69% | <60% |

**Tentative Course Outline**

| Week | Date | Topics (Chapters) | Work Due |
|------|------|-------------------|----------|
| 1 | 06/29 | C++ Review (Ch 1-6), Arrays (Ch 7) | |
| | 07/01 | Searching and Sorting (Ch 8) | |
| 2 | 07/06 | Pointers and Pointer Arithmetic (Ch 9) | |
| | 07/08 | Pointer Function & Memory Alloc (Ch 9) | Pgm1 Due |
| 3 | 07/13 | C++ String (Ch 10) | |
| | 07/15 | Structured Data (Ch 11) | |
| 4 | 07/20 | **Midterm Exam** | |
| | 07/22 | OO Programming & Classes (Ch 13-14) | Pgm2 Due |
| 5 | 07/27 | Inheritance & Polymorphism (Ch 15) | |
| | 07/29 | Exception, Template, Linked List (Ch 16-17) | |
| 6 | 08/03 | Review | Pgm3 Due |
| | 08/05 | **Final Exam** | |

Important notes:
- All examinations will be closed books, no notes and no calculator. The final exam will be comprehensive with the emphasis on topics covered after the midterm exam.
- If you miss an exam, you have to take the make-up exam within a week. There is no make-up for the final exam.
- Programming assignments will be graded on whether they work as required, documentation, program structure, and the completeness of testing.
- There may be assignments for extra credit for those who would like to improve their grades and/or pursue advanced topics.
- Students caught cheating on any examination or programming assignment will receive a grade of zero for that examination or program. Additional action may also be taken.
- Students are required to attend the lecture and expected to utilize the entire lab time.

Important dates:
- Last day to drop without a "W":     06/28/2015
- Last day to drop:     07/28/2015
- Final examination:     08/05/2015