

CSC 501–Intermediate Programming Workshop

Fall 2005
TR 4:50-6:05

Instructor Information

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Summary

Description : An intensive course in C/C++ and data structures emphasizing object-oriented programming. A foundation for the programming skills needed for Masters-level coursework in computer science.

Prerequisites : Graduate standing or consent of the program directory. Assumes intermediate-level mastery of at least one high-level programming language.

Textbooks : Lippman, Lajoie, and Moo, *C++ Primer, 4th edition*, Addison-Wesley, 2005.
Ford and Toppp, *Data Structures with C++ using STL, 2nd edition*, Prentice Hall, 2002.

Course Goals

This course should ensure that you have basic competency in the following areas:

1. The C++ language, including pointers, recursion, I/O, and exceptions.
2. Object-oriented programming, including objects, classes, inheritance, and polymorphism.
3. Data structures: lists, stacks, queues, binary trees, tables, graphs.
4. Algorithms: searching, sorting, tree and graph traversal.
5. Time complexity of algorithms.

Grading

Your grade in the course will be earned / calculated as follows:

assignments	75%	A	→	90	–	100
midterm	10%	B	→	80	–	89
final exam	15%	C	→	70	–	79
		F	→	0	–	69

Midterm and Final Exams

Exams are given to help you consolidate your learnings from the class and to provide both student and instructor with an assessment of how you've learned to think about security. In order to achieve these goals, all exams are comprehensive take-home examinations, where you may use your textbooks and class notes. The exams are designed to test higher order learnings, i.e., your ability to apply what you've learned, not simple memorization of facts.

Students with Disabilities

Students with disabilities who require accommodations (Academic adjustments, auxiliary aids or services) for this course must register with the Disability Services Office. Please contact the Disability Service Office immediately in the University Center, Suite 320 or call 859-572-6373 for more information. Verification of your disability is required in the Disability Services Office for you to receive reasonable academic accommodations. Visit our website at <http://www.nku.edu/~disability/>.

Academic Dishonesty

The work that you submit in this course is subject to Northern Kentucky University's Student Honor Code (see http://www.nku.edu/~deanstudents/student_rights/honor_code.htm.) Issues involving academic dishonesty are taken very seriously by this instructor and are dealt with according to College and Department policy. Academic dishonesty includes but is not limited to:

1. Improper access to evaluation material or records.
2. Submission of material which is not the student's own work.
3. Conduct which interferes with the work or evaluation of other students.

Some specific examples of dishonesty include:

1. Copying from another person, book, magazine, or other electronic or printed media.
2. Obtaining another person's exam answer or answers.
3. Assisting another student in submitting work that is not the student's own.

It is unacceptable to share program code. It is unacceptable to share homework solutions. It is acceptable and often a good idea to talk about program algorithms and homework solution strategies, but it is not acceptable to use the same code or code segments, or to share actual

solutions to homework problems. Any act of academic dishonesty will result in a grade of zero (0) for that item for the first occurrence. An automatic F in the course will result for the second offense. This policy holds for homework assignments and programs, as well as for tests. In order to be fair, penalties will be applied to all parties involved regardless of culpability or fault.

Course Calendar and Class Structure

See the course web site, <http://www.nku.edu/~waldenj1/classes/2005/fall/csc501/index.html> for the most up to date course schedule.