

# Syllabus

## CSC 210 Data Structures & Algorithms Winter 2008 term

Class meets Monday & Wednesday nights from 6:30 to 8:20 pm at 113 Carnegie Hall. Our first class meeting is Wednesday January 2, 2008.

### Description

CSC 210 introduces structures, techniques and algorithms for managing data. Topic will include:

- Search trees including AVL trees, B-trees, and others
- Searching and sorting algorithms
- Graph structures and algorithms
- Analysis of algorithms

Programming is required for this course. We will implement many of the structures and algorithms as they are discussed in lecture.

The prerequisites are CSC 161 and knowledge of the Java programming language.

### Textbook

The required text for CSC 210 is:

*“Objects, Abstraction, Data Structures and Design Using Java Version 5.0”* by Elliot B. Koffman and Paul A.T. Wolfgang

The publisher’s web site is:  
[www.wiley.com/college/koffman](http://www.wiley.com/college/koffman)

You’ll also want to have a Java book handy for programming assignments.

### Instructor

My name is Bill Krieger. I am a part-time professor in the Computer Science department at North Central College.

My email is [wtkrieger@noctrl.edu](mailto:wtkrieger@noctrl.edu) and my North Central site is [william.krieger.faculty.noctrl.edu](http://william.krieger.faculty.noctrl.edu).

### Office Hours

My office is located at 310D Carnegie. We will negotiate office hours in our first class meeting.

In any case, you can always email me, and we will work out a convenient time for us to meet.

### Grades

Your final grade will be comprised of:

- Class work (quizzes, reading) – 10%
- Homework (programs, etc) – 30%
- Midterm exam – 30%
- Final exam – 30%

Late work will generally not be accepted.

The college rules on academic integrity will be strictly enforced... **plagiarism is a severe offense and will not be tolerated.** The North Central College’s policy regarding plagiarism is: [www.noctrl.edu/x8303.xml](http://www.noctrl.edu/x8303.xml)

The standard North Central grading scale is:

A 93–100%	B+ 87–89%	C+ 77–79%	D 60–69%
A– 90–92%	B 83–86%	C 73–76%	F 0–59%
	B– 80–82%	C– 70–72%	

### The Plan

Wow, this is really, really tentative:

Week	Description
1	Recursion, ADT’s, Java review
2	Algorithm analysis, lists
3	Stacks, Queues
4	More recursion, more Java
5	Midterm Exam
6	Trees, balanced trees
7	Sets, maps hash tables
8	Sorting
9	Graphs
10	Final Exam