

Northern Michigan University
(Marquette County, MI)[NMU]
CS 222-01-13W
Data Structures

4 credits

Monday Wednesday Thursday Friday 11:00 – 11:50 A.M.

Monday 14 January 2013 through Friday 26 April 2013

except Monday 4 March 2013 through Friday 8 March 2013

Final Exam: Thursday 2 May 2013 10:00 – 11:50 A.M.

2911 West Science Facility

Instructor: Andy Poe, 1129 New Science Facility, 227-1598

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This course gives an introduction to the theory and practical application of data structures. The language used will be C++.

Text: No Text.

Courseload: There will be frequent programming assignments. These will comprise 50% of your final grade. There will be weekly quizzes comprising a total of 10%. There will be two in-class exams each comprising 10%, and a final exam comprising 20%.

Laptop Policy: Although this is a Computer Science course, the use of a laptop in class is forbidden in class and on exams. There will be exceptions to this policy, such as when we install software or when we have lab days. But, in general, if I'm lecturing, no laptops, or any other distracting electronic equipment such as Walkmans, iPods, cell phones, etc.

Late Policy: Late programming assignments lose 10% per day (Monday, Wednesday, and Friday) until they are submitted.

Office Hours: Monday Wednesday Thursday Friday 2:00–5:00 P.M. or by appointment. You are free to stop by my office anytime you like, within or without the posted office hours; however, I eat my lunch from 12:00–1:00 P.M., and I would appreciate if you didn't visit then.

Electronic Contact: Feel free to contact me at any of the above addresses. My IM services are usually running 24/7, but that doesn't mean I'm looking at them 24/7. I will get back to you as quickly as I reasonably can. Feel free to add me as a Facebook friend if you like. I really have better things to do than to check out your nasty, nasty pictures, so don't worry about that.

Statement on Plagiarism: Plagiarism is the submission of someone else's work as your own. It applies just as strongly when the work is to be written in a computer language as when it is written in a human language. All of the work you submit must be entirely your own. All of it. Your friends may not write code for you, nor may your classmates, nor tutors, nor professors. You may not use code found in books or online. All of your code must come from you. Period. Academic fraud is very serious and will be dealt with according to NMU policy.

Course Objectives: At the conclusion of this course, the successful student should be able to program independently in C++, including reasonably sophisticated recursive programs. The student should be able to understand pointer manipulation and how to build complex data structures using them. The student should be able to understand various data structures used specifically for database manipulation. The student should be able to analyze multiple approaches to a data structures problem and be able to evaluate the pro and cons of these approaches.

Disability: If you have a need for disability-related accommodations or services, please inform the Coordinator of Disability Services in the Disability Services Office by: coming into the office at 2001 C. B. Hedgcock; calling 227-1700; or e-mailing disserv@nmu.edu. Reasonable and effective accommodations and services will be provided to students if requests are made in a timely manner, with appropriate documentation, in accordance with federal, state, and University guidelines.