

CS122
PROGRAMMING II
4 credits

SYLLABUS

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Office Hours: refer to course homepage on Web-CT

Course Description and Overview

CS122 is a continuation of the study of object-oriented programming with JAVA. This course will provide an opportunity to develop fundamental programming skills. A primary focus of the course will be the study of object-oriented design. Fundamental data structures and algorithms will be introduced.

Some of the topics include:

1. JAVA Applications
2. File I/O: text and binary objects
3. Error Handling: try & catch
4. Recursion
5. Events and Interaction
6. Threads and Animation
7. Data Structures
8. Classes, Objects & OOP
9. Searching & Sorting
10. Program Organization & Efficiency (Big O)
11. GUI & Controls
12. Interfaces
13. Client/Server & Networking

Text

GUI JAVA Part 2: Chapters 7-17 August 2004 Edition, Peterson & Ellerbruch

Laptop & Other Electronic Devices

Laptops and other electronic devices **cannot** be used during class lectures.

Laptops should be brought to class **everyday**.

Laptops will be used for in-class exercises as indicated by your instructor.

Computer availability is required to complete Homework assignments and to access course materials on Web-CT.

Prerequisite

C- or better in CS120 or equivalent

Homework

About eight (8) homework problems are assigned for the semester.

This course has a large laboratory component. Expect to spend up to 10 hours each week outside of class working on programming assignments. No partial credit is given for homework more than one week late. 10% is deducted for each late day (up to 5).

All homework is submitted to a Web-CT Assignment Dropbox. Use the **Upload file** button to upload all required files. After all files are uploaded, remember to use the **Submit assignment** button. Your assignment will not be submitted if the **Submit assignment** button is not used. You will receive an e-mail confirmation if your assignment has been submitted properly.

Tests

All testing will be closed book and laptops may **not** be used during testing.

There are 4 tests for this course:

Test #1

Test #2

Test #3

Final Exam (comprehensive)

The test schedule will be announced in class.

Make-up of Missed Work

For on-campus sections of this course:

1. Make-up of missed tests will be allowed if you contact me prior to the absence and you have a valid excuse.

2. **No** make-up of quizzes or in-class assignments will be allowed. Your attendance in this class will affect your final grade.

Personal Contact

I am very interested in what is happening with my students and I appreciate when you inform me of situations with could affect your attendance and/or performance in my class. However, please do not explain your class absences or other personal problems to me in the classroom (before or after class). Please use one of the following ways to inform me of personal items:

- meet me in my office during my office hours (NSF 1306)
 - use my office phone, 906-227-2501 (leave a voice message)
 - e-mail me at dpowers@nmu.edu
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Grading

For on-campus sections of this course:

40% Homework Assignments

30% Tests & Quizzes (50% before final exam)

10% Class Participation

20% Final Exam (Comprehensive). Students with an 80% or higher average may elect **not** to take the final exam.

Grades: Grades are assigned based on the % of total points obtained as follows:

A 92-100 C+ 77-79

A- 90-91 C 73-76

B+ 87-89 C- 70-72

B 83-86 D+ 67-69

B- 80-82 D 63-66

F 0-62

Plagiarism

It is anticipated that students will work together on class assignments. It is never permissible, however, to submit work that is not substantially original with the author. Severe violations of this principle will result in an 'F' for the course.

Americans with Disabilities Act: If you have a need for disability-related accommodations or services, please inform the Coordinator of Disability Services in the Disability Services Office located at 2001 C. B. Hedgcock (227-1700; TTY 227-1543). 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.