

## CS 120 Computer Science I, Fall 2006

### SYLLABUS August 31, 2006

**Instructor:** Jeffrey Horn, email: [jhorn@nmu.edu](mailto:jhorn@nmu.edu)  
**office:** 1119 New Science Building  
**phone:** 227-1607

Office Hours: The table below lists my "open" office hours. Other hours are available by appointment (please email me a REQUEST, and I'll let you know if I can do it!)

	Mon.	Tues.	Wed.	Thurs
OPEN HOUR	2-3:00pm	6-7:00pm	5-6:00pm	2-3:00pm, 6-7:00pm
By Appointment		12-3:00pm	2-4:00pm 6-7:00pm	

Textbook (required): *GUI JAVA Part I: Fall 2006, Chapters 1-7* by B. Peterson and L. Ellerbruch, available in Campus Bookstore

(not Part II !!)

**Classroom:** New Science Facility (NSF) 1209  
**Meeting Times:** EVENING SECTION: 7-8:40pm, TuTh  
**Prerequisites:** Math 100 or equivalent or permission of instructor  
**Our web page:** <http://cs.nmu.edu/~jeffhorn/Classes/CS120/Fall2006/>

(I will use the web page EXTENSIVELY, posting everything I can up there as soon as possible. This includes all electronic forms of handouts, assignments, solutions, sample tests, etc. Also I will post announcements, links to interesting, topic-related sites, etc. So please check our page regularly! At the very least, twice a week. We will also have a WebCT page for posting grades, etc.)

### TOPICS:

- INTRODUCTION: What is *Programming*, a *programming language*, etc.? ( Example: programming a robot)
- The Java and OO Models of Computation
- Constants and variables.
- Classes, Objects, Methods.
- Loops and conditional branching.
- User interaction.
- Nested Objects.
- Arrays
- Strings

### GRADING:

50% Programs.  
 10% Quizzes  
 20% Exams in-class and take-home  
 10% Final exam, comprehensive.  
 10% Instructor's discretion

**Late Policy:** For programs and homeworks, 5% off for each day late (counting only days that the university is

open; e.g., **not** weekends or snowdays). But of course I cannot accept them after solutions are handed out! As for exams, those cannot be made up except under the most severe and extenuating emergencies! Don't take a chance if you don't have to! (If we have "enough" assignments and/or quizzes, I will drop the lowest grade in that category.)

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## COMPUTING FACILITIES:

Hardware: NMU IBM ThinkPads, NMU Apple iBooks

Software: TextPad program editor, Sun's Java 2 Platform to compile programs, and a Web browser to run them. (click [here](#) for instructions on downloading the free software)

### INSTALLATION OF SOFTWARE (to be done during the first week of class)

If you have a Macintosh Computer running OS X, the software you need is already installed on your machine. If you have a computer running Microsoft Windows, you should obtain two pieces of software. The first is Java language software from Sun Microsystems. The second is the programming editor TextPad.

#### Obtaining the Java Software

Use a web browser to view <http://java.sun.com/j2se/1.4.2/download.html>

This should bring up a web page with the heading: **Java 2 Platform, Standard Edition (J2SE)**

There are several choices of packages to download. You want "J2SE v 1.4.2\_10 SDK includes the JVM technology"

Click on these words: **Download J2SE SDK**

Check the "Accept" for the licensing agreement.

Then choose one of the two choices for the Windows platform (**Windows Platform - Java(TM) 2 SDK, Standard Edition 1.4.2\_10**)

#### NOTES:

This software is very large. It is nearly impossible to obtain it over a telephone line. You must have a high speed internet connection.

#### Obtaining the Text Editor

Use a web browser to view <http://www.textpad.com/>. Click on download.

This should display a page that gives a choice of obtaining version 4.7 of TextPad with an English only interface. Obtain this software.

Installing the Software

Install the Java software FIRST!!! This is the only thing you need to be careful about.

For each of the pieces of software you have downloaded, choose the most obvious answers to the questions.

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## DISABILITY SERVICES

*If you have a need for disability-related accommodations or services, please inform the Coordinator of Disability Services in*

*the Disability Services Office 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.*

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## **LIBERAL STUDIES, DIVISION V**

**This course satisfies the Formal Communication Studies requirement.**

These courses are designed to introduce students to the ways in which information and ideas are expressed using a communication system other than English. Such courses should foster the student's ability to conceptualize and communicate in an orderly, rational manner. Characteristics of a communication system include: 1) possession of a grammar; 2) operation from an established set of rules; 3) reasoning properties such as deduction, inference drawing and problem solving. This includes courses in languages and those in which the central focus of the course is on statistics, computers or formal logic.