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Fall 2007

### CS 240: Computer Programming I

L. Jane Lin

*Wright State University - Main Campus*

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# CS 240 – Computer Programming I (Fall 2007)

A230 Creative Arts, 12:15-1:20pm MWF

**Instructor:** Dr. L. Jane Lin, 160 Russ Engineering Center  
(off the study area inside 158 Russ Engineering Center)

**Email:** [jane.lin@wright.edu](mailto:jane.lin@wright.edu)

**Web site:** Access WebCT (<http://wisdom.wright.edu>) for class materials

**Office Hours:** 11:15am - 12:15pm MW RC160 or by appointment

**Textbook:** *Starting Out with Java: control structures to objects, 3<sup>rd</sup> edition* by Tony Gaddis, Addison Wesley Higher Education, 2007 (ISBN: 0321479270)

**Language:** Java SE (on Textbook CD or available from [java.sun.com](http://java.sun.com))

**IDE Environment:** NetBeans IDE ( <http://java.sun.com/javase/downloads/index.jsp>)

**Course Description:** Basic concepts of programming and programming languages are introduced. Emphasis is on structured programming and stepwise refinement. **Note: Concurrent registration into CS 240L is required.**

**Prerequisites:** MTH 130 or WSU Math Placement 5

**Grading Policy:** Final grades will be computed as follows.

4 Programming Assignments	-----	36%
8 Lab Exercises	-----	16%
8 quizzes/attendance	-----	8%
1 Midterm Examination	-----	15%
1 Final Examination	-----	25%

**Grading Scale:** The final grade is assigned as follows.

90-100	-----	A
80-below 90	-----	B
70-below 80	-----	C
60-below 70	-----	D
Below 60	-----	F

## General Class Policy

**Midterm and final exams** will be given on the dates specified on the class schedule. Makeup exams will be given only with documented emergency.

**ATTENDANCE:** It is strongly advised that students attend all lectures and lab sessions. Attendances will be taken on each class day.

**Quizzes:** Students are to complete a weekly quiz on WebCT within the given time period except the first and sixth weeks (refer to class schedule). Each quiz contains up to 10 questions from the materials covered in each week, including lectures, textbook chapters, worksheets and lab exercise.

**LABS and PROJECTS:** The minimal requirement to receive a grade for this course is to complete at least two programming projects and four lab exercises. **A student who completes only 1 or 2 projects or only 1 or 2 or 3 lab exercises will receive grade 'X'.**

**Labs** are led by lab teachers who will guide and check eight laboratory exercises. All students are required to attend their scheduled laboratory session each week. Each lab exercise consists of an "in-lab" and a "post-lab" component. The "in-lab" component is due at end of each lab period and the "post-lab" component may be submitted before the end of the lab period in the following week.

**Programming projects** are due at the date/time indicated on WebCT. Java files are to be uploaded to WebCT before they are due. **It is a student's responsibility to make certain files are transferred in time successfully to WebCT.** Please always submit your files since partial credit is available. Please send your project files as attachments through emails to the instructor as soon as possible if there is a problem uploading your project files to WebCT.

## CS 240 Course Schedule (Fall 2007)

Date	Class Topics and quiz/exam dates	Reading Assignments	Labs/Quizzes
9-5	Introduction to Java, Java Architecture, ASCII/Unicode, JVM/JRE/JDK; Program Elements, Data Types	Chapter 1 Appendices B, E	No
9-10 9-12 9-14	Variables, Arithmetic Operators, String, Scope, Input, Output, Comments and Javadoc	Chapter 2 Appendices D, F, G	Quiz 1 Lab 1
9-17 9-19	Intro to methods <b>Project 1 assigned</b> More about methods; Math class	Chapter 5	Quiz 2 Lab 2
9-24 9-26	Decision Structures Intro to loops, ++/--, while <b>Project 1 due on 9-30</b>	Chapter 3 Appendix C 4.1-4.2	Quiz 3 Lab 3
10-1 10-3	do-while, for, Nesting; <b>Project 2 assigned</b> More about Chapter 2	Chapter 4 Chapter 2	Quiz 4 Lab 4
10-8	File IO, more about loops	Chapter 4	
<b>10-10</b>	<b>Mid Exam (Covers 1-5)</b>		
10-12	More about methods, loops and File IO, <b>Project 2 due on 10-14</b>		Lab 5
10-15 10-17	Intro to Arrays; <b>Project 3 assigned</b> Arrays	Chapter 8	Quiz 5; Lab 6
10-22 10-24	Object as data; call by reference Multidimensional Arrays <b>Project 3 due on 10-28</b>	Chapter 8	Quiz 6; Lab 7
10-29 10-31	Wrapper classes; ArrayList; <b>Project 4 assigned</b> StringBuilder	Chapter 8 Chapter 10	Quiz 7; Lab 8
11-5 11-7	Hashes Review for the final exam <b>Project 4 due on 11-11.</b>	Chapter 10	Quiz 8 No Lab
<b>11-14</b>	<b>Wednesday: Comprehensive Final Exam (1-3 pm)</b>		

Note: The instructor reserves the right to make changes to the tentative class schedule.