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Winter 2005

CS 142-01: Computer Programming - II

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CS 142 Computer Programming - II Winter 2005 - Lecture Section 1

Last Update: December 1, 2004 at 12:52 p.m.

MW 2:45 - 4:00 p.m., Russ Engineering Center Room 155 (Lecture)
Plus **one** of the following lab sections:

Sect	Time	Day	Room
5	1:30 - 2:20 p.m.	W	RC346
6	4:10 - 5:00 p.m.	W	RC346

Description: Concepts introduced in CS 141 are developed in greater detail and depth with the Java programming language. Topics include object oriented programming, graphics, development of user interfaces and handling runtime errors with an emphasis on program verification and testing. Students must register for both lecture and one laboratory section. 4 credit hours. Prerequisite: CS 141 (Computer Programming I) and MTH 127 (College Algebra) or equivalent.

Instructor: Dr. Ronald F. Taylor 775-5122 (Office RC 356) or 775-5131 (CSE Dept RC 303), rtaylor@cs.wright.edu. Office hours: 1:00 - 2:30 p.m. M, Tu, W, & Th (other times by appointment)

Textbook: **Introduction to Java Programming with JBuilder 4**, Third Edition, Y. Daniel Liang, Prentice-Hall, 2004, ISBN 0-13-143049-1

Home Page: <http://www.cs.wright.edu/people/faculty/rtaylor/cs142>

Grading: Mid-term exam and quizzes: 20%; comprehensive final: 30%; programming lab assignments: 50%. Final grade is based on the course average:

A: 100-90, **B:** less than 90-80, **C:** less than 80-70, **D:** less than 70-60, **F:** less than 60-0.
unless you get less than 70% of the possible points on your programming lab assignments in which case you fail the entire course.

Policy: No late exams unless verifiable emergency. No make-up quizzes: quizzes can be unannounced in-class or take home. **All work must be your own; sharing of program code will result in a grade of "zero" for all those involved. Official university policy will be followed in cases of academic dishonesty.** Don't show others your programs and don't look at someone else's code. However, sharing ideas and general computer skills with others outside of class is encouraged. The instructor considers it important to attend all lectures and lab sessions. You are responsible for material covered in lecture, lab, and the corresponding material in the text.

Programs: Programming lab assignments will be issued in class or during the lab sessions. Each assignment will state the due date. Assignments usually will be one or possibly two weeks in duration. As noted above, you must earn at least 70% of the possible points on lab assignments in order to pass the course. Programming assignments are to be submitted on the due date. Late assignments are accepted at the discretion of the TA, who will impose a late penalty.

Schedule: See table below. Topics may vary. Exam dates are firm. Topics to be covered each week are listed, followed by the accompanying sections in the text. Not all sections listed are directly covered in class. This schedule is subject to change. Use of JBuilder is required in the labs. JBuilder will be discussed in lecture; however, it is essential to attend your lab sessions and also do extra outside of class programming. In the reading assignments it is suggested that you cover the sections dealing with JBuilder. This is in contrast to CS 141 when JBuilder was not covered.

Week	Topic	Readings Assignments
1	Introduction to JBuilder Review of Methods Recursion	Ch 1&4 (pp. 18-26) Ch 4 (pp. 154-175) Ch 4 (pp. 182-193)
2	Arrays & Review of Strings Objects and Classes	Ch 5&7(pp. 206-227 & 234-243) Ch 6 (pp. 254-277)
3	Objects and Classes (continued) Class Inheritance and Interfaces	Ch 6 (pp. 278-291) Ch 8 (pp. 336-350)
4	Abstract Classes and Interfaces Review for Exam	Ch 9 (pp. 368-382, 386-391)
5	Introduction to GUI Programming Mid-Term Exam: Wednesday February 2	Ch 11 (pp. 448-464)
6	Introduction to GUI Programming (continued) Event Driven Programming	Ch 11 (pp. 464-485) Ch 12 (pp. 506-526)
7	Creating User Interfaces	Ch 13 (pp. 532-552)
8	Introduction to Applets and HTML	Ch 14 (pp. 620-635) & Supplement F on CD
9	Exception Handling Introduction to Input and Output	Ch 15 (pp. 656-669) Ch 16 (pp. 687-716)
10	Finish Any Remaining Topics Course evaluation Review for Final Exam	
Finals	Comprehensive Final Exam: Wednesday March 16, 3:15 - 5:15 p.m., in usual lecture classroom	