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Summer 2005

### CS 141-01: Computer Programming - I

Ronald F. Taylor

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# CS 141 Computer Programming - I

## Summer 2005 - Lecture Section 1

Last Update: Sunday June 12, 2005 at 5:11 p.m

TuTh 12:20 p.m. – 1:35 p.m., Fawcett Hall Room 218 (Lecture)

Plus one of the following lab sections:

Sect	Time	Day	Room
5	2:15 - 3:05 p.m.	Tu	RC 346
6	4:10 - 5:00 p.m.	Tu	RC346

**Description:** This course provides a general introduction to the fundamentals of computer programming. Examples from and applications to a broad range of problems are given. No prior knowledge of programming is assumed. The concepts covered will be applied to the Java programming language. Students must register for both lecture and one laboratory section. 4 credit hours. Prerequisite: MTH 127 (College Algebra) or equivalent.

**Instructor:** Dr. Ronald F. Taylor 775-5122 (Office RC 356) or 775-5131 (CSE Dept RC 303), [ronald.taylor@wright.edu](mailto:ronald.taylor@wright.edu). Office hours: 9:00 - 11:00 a.m. Tu and 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/cs141>

**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 will usually be unannounced. **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 at your option. References to JBuilder in the text are, for the most part, not covered in lecture. In the reading assignments it is ok to skip over the sections dealing exclusively with JBuilder.

**Topic**

Week	Topic	Readings
1	Intro to Algorithms, Languages, Computers, Number Systems and the Java Development Toolkit. First Java Program: Reserved words, identifiers, simple data types, declarations and statements, including I/O.	Ch 1 pp. 1-17,27-28 Ch 2 pp.42-58 Supplements A,B,D on CD
2	First Java Program (continued) Program Design Boolean Expressions, IF statements,	Ch 2 pp 58-95 Ch 3 pp. 106-109
3	Compound Statements, Nested IF Statements and selection, Multiple Alternative Statements	Ch 3 pp.109-117
4	Loops.	Ch 3 pp. 117-127
5	Loops continued, Nested Loops, Coding Guidelines <b>Exam: Thursday July 14th (full period)</b>	Ch 3 pp.127-141 Supplement C on CD
6	Intro to Arrays Methods; Scope of Identifiers	Ch 5 pp.206-217 Ch 4 pp. 154-166
7	Methods (continued) Object Oriented Programming	Ch 4 pp 166-182 Ch 6 pp. 254-264
8	Object Oriented Programming (continued)	Ch 6 pp. 264-282,
9	Strings and Other Objects Course evaluation	Ch 7 pp. 306-315
10	Finish Any Remaining Topics Review for Final Exam <b>Final Exam: Thursday August 18<sup>th</sup> (full period)</b>	