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Fall 2009

### CS 240: Computer Programming I

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**CS 240**  
**Computer Programming I**  
**Fall 2009**  
**Course Syllabus**

**Course description:** Basic concepts of programming and programming languages are introduced. Emphasis is on structured programming and stepwise refinement.

**Textbook:** *Introduction to Java Programming (Brief Version)*, Seventh Edition, Y. Daniel Liang, Pearson/Prentice Hall, 2009, ISBN: 978-0-13-604258-7.

**Software:** This course uses the Java programming language and the NetBeans IDE. You can install both on your home computer by downloading them from this site:

<http://java.sun.com/javase/downloads/index.jsp>

Choose the **JDK 6 Update 16 with NetBeans 6.7.1** download.

**WebCT:** <http://wisdom.wright.edu> WebCT will be used for course announcements, submitting projects, and accessing grades. Some course materials will be posted on WebCT. It is the students' responsibility to check the course site regularly.

**Lab Facilities:** Open labs are available for your use in Russ 152C, 152D, and the library annex. Russ labs are open 24/7; library lab information can be found at <http://www.wright.edu/cats/labs/>. Although you may find it convenient to work at home, make a note of these lab locations in the event that you have a problem with your personal computer (hard drive crash, inability to print, etc.). Because lab facilities are so widely available at Wright State, personal computer issues are not an acceptable excuse for turning in late work.

**Help Room:** The Department of computer Science and Engineering maintains a help room, staffed by upper-level students, for students in introductory programming classes. The help room is located in Russ 308. Help room hours will be posted on the course WebCT site once they are determined.

**Students with disabilities:** Any student with a disability must inform the instructor of the special accommodations needed as soon as possible. The Office of Disability Services can provide an evaluation to determine what accommodations are appropriate.

**Academic misconduct:** All work in this class is to be completed individually. While you may find it helpful to discuss the homework assignments with other students in the class, be careful that your work is your own. Also, do not "share" your work with other students. Credit will not be given for work that duplicates another student's work or that was completed as a team effort. In cases where academic dishonesty is suspected, the university policy on academic misconduct will be followed. This policy can be found at <http://www.wright.edu/students/judicial/integrity.html>

## Lecture Schedule

DATES	TOPIC	READING/SUGGESTED PROBLEMS
Week 1	Introduction to Java programming Introduction to NetBeans IDE Number systems	Chapter 1 Pages 22-23: questions 1.1 – 1.5; questions 1.14 – 1.20
Week 2	Input/output statements Data types, variables, operators Programming Style Programming errors Strings	Chapter 2 Pages 59-62: questions 2.1 – 2.12; questions 2.25; 2.27 – 2.29 Chapter 8, section 8.2 Page 292: questions 8.1 – 8.9
Week 3	Boolean expressions Decision structures Formatting output	Chapter 3 Pages 94-98: questions 3.1 – 3.17 questions 3.20 – 3.27; 3.31 – 3.32; 3.34
<b>Monday, Sept. 28</b>	<b>Exam I (chapters 1, 2, 3, and 8.2)</b>	
Weeks 4 and 5	while loops; do-while loops; for loops; nested loops	Chapter 4 Pages 129-132: questions 4.1 – 4.21
Week 6	Methods (defining, calling, arguments/parameters); Scope; Modularity; abstraction; stepwise refinement; Math class methods	Chapter 5 Pages 167-171: questions 5.1 – 5.2 questions 5.3 – 5.15 5.17 – 5.18
Week 7	Input and output files	Chapter 8, section 8.7 Page 299: questions 8.18 – 8.20
<b>Friday, Oct. 23</b>	<b>Exam II (chapters 4, 5, 8.7)</b>	
Week 8	Declaring and using arrays; for-each loops; methods with array arguments and return values; methods with variable-length argument list	Chapter 6 (sections 1 – 6) Pages 219-221: questions 6.1 – 6.16
Week 9	Searching and sorting arrays Two-dimensional arrays	Chapter 6 (sections 6.7, 6.8, and 6.10) Pages 221-222: questions 6.17 – 6.19; questions 6.25 – 6.28
Week 10	Two-dimensional arrays (continued) Nov. 11 -- Veteran's Day – no classes Nov. 13 -- Review for final exam	