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Summer 2009

CS 240: Introduction to Computer Science I

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CS 240
Computer Programming I
Summer 2009

Instructor: Mrs. Vanessa Starkey

Office: 336 Russ

Office hours: TR 1:00 – 2:00 p.m.
and by appointment

Phone: 775-5108

email: vanessa.starkey@wright.edu

Class meeting time: TR 2:15-3:30 p.m. (Russ 144)

Lab meeting time: TR 4:10-5:00 p.m. (Russ 346)

Problem session (optional): 1-2 hours per week, time to be determined

Course description: Basic concepts of programming and programming languages are introduced. Emphasis is on structured programming and stepwise refinement. Prerequisite: MTH 130 or MPL 5.

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 14 with NetBeans 6.5.1** 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.

Computer use: The use of computers is not permitted during the lecture periods, with the exception of a documented disability that requires the use of a computer for note-taking.

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.

Attendance and Grading Policies

Lab work (CS240L): Lab work from these sections will be included in your CS240 grade. Lab attendance is mandatory, and lab work must be turned in at the end of each lab session. **There is no make-up work allowed for lab work;** however, the lowest two lab grades received during the term will be dropped before your final grade is calculated.

Homework: Due dates/times for homework will be given when the assignment is handed out. Late work will be accepted up to 24 hours after the initial deadline, but will incur a 10% penalty. Partial credit will be given for incomplete assignments. **Your program assignments must run in the NetBeans/Java programming environment** as specified in the Software paragraph above. Homework that will not open/run in this environment will not be graded and will be scored as a zero. Please note that just because your program “works” does not mean you will receive full credit. In addition to meeting the requirements of the problem, projects must meet the style guidelines (available on the course WebCT site) and follow good programming practices (which will be discussed in class throughout the term).

Quizzes: A short (5 minute) quiz will be given at the beginning of each lecture session. **No make-up quizzes will be given;** however, the lowest two quiz grades will be dropped before your final grade is calculated. Quiz problems will be taken from either the previous class lecture material or from the suggested problems list on the lecture schedule.

Exams: Two exams and a comprehensive final exam will be given. Normally, **makeup exams will not be given.** However, there are two exceptions: (1) the student has an extremely important, binding engagement the same time as the exam. In this case, the student must make arrangements with the instructor to take the exam before the scheduled time. (2) The student has an extreme illness or emergency that prevents him/her from taking the exam. In this case, the student must contact the instructor within 24 hours of the exam time to arrange a make-up, and the student must be able to provide documentation of the illness/emergency.

Grading: The course grade will be calculated by weighting the various graded components of the course as given below. The grading scale is 90-100 A; 80-89 B; 70-79 C; 60-69 D; 0-19 F.

Homework: 25%

Labs: 15%

Quizzes: 10%

Exams (15% each): 30%

Final exam: 20%

Lecture Schedule

DATES	TOPIC	READING/SUGGESTED PROBLEMS
June 16	Introduction to Java programming Introduction to NetBeans IDE	Chapter 1 Pages 22-23: questions 1.1 – 1.5; questions 1.14 – 1.20
June 18 - 23	Data types, variables, operators; Programming Style Programming errors	Chapter 2 Pages 59-62: questions 2.1 – 2.12; questions 2.22 – 2.29
June 25 – June 30	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
Thursday, July 2	Exam I (chapters 1, 2, and 3)	
July 7 - 14	while loops; do-while loops; for loops; nested loops	Chapter 4 Pages 129-132: questions 4.1 – 4.21
July 16 - 21	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
July 23 - 28	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
Thursday, July 30	Exam II (chapters 4 and 5)	
Aug 4 - 6	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
August 11 - 18	The String class Input and output files	Chapter 8 (sections 8.2 and 8.7) Page 292: questions 8.1 – 8.9 Page 299: questions 8.18 – 8.20
Final Exam is Thursday, August 20 -- 2:15 - 3:30 pm		