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
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, 3rd edition by Tony Gaddis, Addison
Language: Java SE (on Textbook CD or available from java.sun.com)
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 exercises.
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.
<table>
<thead>
<tr>
<th>Date</th>
<th>Class Topics and quiz/exam dates</th>
<th>Reading Assignments</th>
<th>Labs/Quizzes</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-5</td>
<td>Introduction to Java, Java Architecture, ASCII/Unicode, JVM/JRE/JDK; Program Elements, Data Types</td>
<td>Chapter 1 Appendices B, E</td>
<td>No</td>
</tr>
<tr>
<td>9-10</td>
<td>Variables, Arithmetic Operators, String, Scope, Input, Output, Comments and Javadoc</td>
<td>Chapter 2 Appendices D, F, G</td>
<td>Quiz 1 Lab 1</td>
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<td>9-12</td>
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<tr>
<td>9-14</td>
<td>Intro to methods Project 1 assigned</td>
<td>Chapter 5</td>
<td>Quiz 2 Lab 2</td>
</tr>
<tr>
<td>9-17</td>
<td>More about methods; Math class</td>
<td></td>
<td></td>
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<tr>
<td>9-19</td>
<td>More about Chapter 2 Project 2 due on 9-30</td>
<td>Chapter 4</td>
<td>Quiz 3 Lab 3</td>
</tr>
<tr>
<td>10-1</td>
<td>do-while, for, Nesting; Project 2 assigned</td>
<td>Chapter 4 Appendices D, F, G, G</td>
<td></td>
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<tr>
<td>10-3</td>
<td>More about Chapter 2 Project 2 due on 10-14</td>
<td>Chapter 2 Appendices D, F, G, G</td>
<td></td>
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<tr>
<td>10-8</td>
<td>File IO, more about loops</td>
<td>Chapter 4</td>
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<tr>
<td><strong>10-10</strong></td>
<td>Mid Exam (Covers 1-5)</td>
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<tr>
<td>10-12</td>
<td>More about methods; loops and File IO, Project 2 due on 10-14</td>
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<td>Lab 5</td>
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<tr>
<td>10-15</td>
<td>Intro to Arrays; Project 3 assigned</td>
<td>Chapter 8</td>
<td>Quiz 5 Lab 6</td>
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<tr>
<td>10-17</td>
<td>Arrays</td>
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<tr>
<td>10-22</td>
<td>Object as data; call by reference</td>
<td>Chapter 8 Appendices D, F, G, G</td>
<td>Quiz 6 Lab 7</td>
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<tr>
<td>10-24</td>
<td>Multidimensional Arrays Project 3 due on 10-28</td>
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<tr>
<td>10-29</td>
<td>Wrapper classes; ArrayList; Project 4 assigned</td>
<td>Chapter 8 Appendices D, F, G, G</td>
<td>Quiz 7 Lab 8</td>
</tr>
<tr>
<td>10-31</td>
<td>StringBuilder</td>
<td>Chapter 10</td>
<td></td>
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<tr>
<td>11-5</td>
<td>Hashes</td>
<td>Chapter 10</td>
<td>Quiz 8 No Lab</td>
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<tr>
<td>11-7</td>
<td>Review for the final exam Project 4 due on 11-11.</td>
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<td><strong>11-14</strong></td>
<td>Wednesday: Comprehensive Final Exam (1-3 pm)</td>
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Note: The instructor reserves the right to make changes to the tentative class schedule.