Fall 2005

CS 240: Introduction to Computer Science I

L. Jane Lin
Wright State University - Main Campus

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CS 240 – Introduction to Computer Science I (Fall 2005)
153 Russ Engineering Center, 12:15-1:20pm MWF

Instructor: Dr. L. Jane Lin, 160 Russ Engineering Center
(office area inside 158 Russ Engineering Center)
Email: iane.lin@wright.edu
Web site: http://www.wright.edu/~iane.lin
Office Hours: 11:50am-12:20pm TR; 1:20-2:00 pm MW RC 160 or by appointment
Disks: at least two formatted 3.5" High Density Diskettes
Software: Microsoft Visual C++ .NET (available in WSU Durlcy library with a nominal fee)

Course Description:
This course is the first in the three course sequence "Introduction to Computer Science" offered by the
Computer Science department at WSU. This course presents a general introduction to C++ programming
language. It introduces the fundamental capabilities of C++ language as a problem solving tool. Topics include
data representation, debugging and program verification. Note: For all CS 24X students, concurrent
registration into CS 24X lab is a must.

Prerequisites: MTH 130 & MTH 131; or MTH 134 (co-requisite) or equivalent.

Grading Policy:
Final grades will be computed as follows.
4 Programming Assignments --------- 32%
8 Lab Exercises ------------------- 20%
2 Examinations --------------------- 28%
1 Final Examination ---------------- 20%

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
It is strongly advised that students attend all lectures and lab sessions. In the event of absence, a student is
responsible for material covered in lecture/lab, and making up all missed work in the timeliest
manner. There is a lab section for this course and labs are handled by lab teachers who will guide and
check eight laboratory assignments. Students are required to complete at least two projects and four
lab assignments to receive a non-X grade. Programming projects are due at the beginning of the class on
the date they are due. No late submissions are accepted. Always submit your work since partial credit is
available. Examinations will be given on the dates specified on the class schedule. If a student misses a
test, that test has 0 score automatically.

Class Schedule (~ over)
# CS 240 Course Schedule (Fall 2005)

<table>
<thead>
<tr>
<th>Date</th>
<th>Class Topics and quiz/exam dates</th>
<th>Reading Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>9-7</td>
<td>Introduction to Computers and Programming</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Number Systems</td>
<td>App. F 2.1 - 2.4</td>
</tr>
<tr>
<td>9-12</td>
<td>Data Types, Variables, I/O</td>
<td></td>
</tr>
<tr>
<td>9-14</td>
<td>Arithmetic and String Expressions; Objects</td>
<td>2.5 - 2.6; 3</td>
</tr>
<tr>
<td>9-19</td>
<td>Quick Introduction to Objects</td>
<td></td>
</tr>
<tr>
<td>9-21</td>
<td>Flow of Control (conditional decisions and iteration)</td>
<td>4</td>
</tr>
<tr>
<td>9-23</td>
<td>Last day to drop without a Grade: Monday, Sept. 26</td>
<td></td>
</tr>
<tr>
<td>9-28</td>
<td>Functions</td>
<td>5.1 - 5.6</td>
</tr>
<tr>
<td>10-3</td>
<td>Examination 1 (Covers Chapters 1-5.6, App. F)</td>
<td></td>
</tr>
<tr>
<td>10-5</td>
<td>Procedures and Software Design</td>
<td>5.7 - 5.13</td>
</tr>
<tr>
<td>10-15</td>
<td>Classes</td>
<td>6</td>
</tr>
<tr>
<td>10-17</td>
<td>Adv. Flow of Control</td>
<td>7</td>
</tr>
<tr>
<td>10-19</td>
<td></td>
<td></td>
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<tr>
<td>10-24</td>
<td>Last day to drop with W. Grade: Monday, Oct. 24</td>
<td>8</td>
</tr>
<tr>
<td>10-26</td>
<td>Testing and Debugging</td>
<td></td>
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<tr>
<td>10-31</td>
<td>Examination 2 (Covers 5.7 - 8)</td>
<td></td>
</tr>
<tr>
<td>11-2</td>
<td>1-dimensional Vectors and Arrays</td>
<td>9.1 - 9.5.3</td>
</tr>
<tr>
<td>11-7</td>
<td>Multiple-dimensional Vectors and Arrays</td>
<td>9.5.4</td>
</tr>
<tr>
<td>11-16</td>
<td>Final Exam (1-3 pm)</td>
<td></td>
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</tbody>
</table>

Note: The instructor reserves the right to make changes to the tentative class schedule.