Fall 2007

CS 240: Computer Science I

Eric Maston

Wright State University - Main Campus

Follow this and additional works at: https://corescholar.libraries.wright.edu/cecs_syllabi

Part of the Computer Engineering Commons, and the Computer Sciences Commons

Repository Citation


https://corescholar.libraries.wright.edu/cecs_syllabi/182

This Syllabus is brought to you for free and open access by the College of Engineering & Computer Science at CORE Scholar. It has been accepted for inclusion in Computer Science & Engineering Syllabi by an authorized administrator of CORE Scholar. For more information, please contact corescholar@wwwlibraries.wright.edu, library-corescholar@wright.edu.
Computer Science I
Autumn 2007
Wright State University

September 6, 2007

Course Description

This is the initial course in the Introduction to Computer Science series. Beginning concepts and programming will be discussed and taught in this course. This course will use Java as the language of implementation.

Goals

There are several goals in CS 240:
1. Learn basic coding techniques and skills in Java.
2. Learning about Integrated Development Environments (IDE) such as Netbeans.
3. Learn how to develop simple to more complex software programs.
4. Have some fun!

Class Details

Lecturer: Eric Matson
Office: 336 Russ Engineering Center
Phone: 937-775-5108
Office Hours: Monday 4:30 - 6:00, Tuesday 1:00 - 2:00 at Russ 336 or by appt.
Email: eric.matson@wright.edu
Web: http://agents.cs.wright.edu and WebCT
Class: 2:15 pm - 3:30 pm TR Oelman 345
IDE: Netbeans
Prerequisites

For this class the official prerequisite is experience with algebra. There will be varying levels of experience with the students in this class. The class will be taught assuming no knowledge of programming and we will work from there. Please let me know the first lecture if you have concerns, and we can talk about your preparation.

Grading

Programming projects 400 pts. [4 @ 100 pts.]
Laboratory assignments 160 pts. [8 @ 20 pts.]
Mid-term examination 200 pts.
Final examination 300 pts.
TOTAL 1060 pts.

The base scale is: A: 90-100, B: 80-89, C: 70-79, D: 60-69, F: 0-59. This is the highest requirement that will be used. The scales may be lowered or revised if necessary. The instructor reserves the right to fail any student who does not attain an overall passing grade (70%) in the programming projects and labs.

Policies and Notes

- Attendance: Attendance is not required, nor will it be taken after the first couple of lectures. If you are not a regular attendee, it will be your responsibility to seek out what material was covered in the lecture and learn it. Most of my exam questions will be taken directly from ideas covered during the lecture, so it greatly helps if you attend!

- I will utilize WebCT or my web page to post updates to the course, sample code, projects, announcements, schedule, etc. Get in the habit of checking it regularly.

- The prerequisites of the course are basic. If you are not confident in your skills or have concerns, then visit with me

- Always make back ups of all of you work. Never have just one copy of anything!

- If you are going to miss an exam, for any reason, discuss it with me in advance. If it is an emergency situation, please notify me as soon as possible.

- You can reach me a number of ways. Email is normally the best as I check it about 18 hours a day normally. You can also reach me by phone during the day at 775-5108. If you need human contact either stop in during my office hours, make an appointment, or just come by my office. If I am in and not on a deadline to get something else completed, I will normally try to help as much as possible.

- There are technologies we will use in this class that you may not already know, such as file transfer, command line, text editors, file systems, etc. We will cover some of these technologies as we go.
The key to learning in this class will be spending time working through the problems. Don't wait until 2 hours before something is due to try to learn the concept and then write the program. This normally ends in a disaster! Stay up with the readings and try to work through some of the examples in the book.

**Academic Misconduct**

In this class, the only way to truly learn the concepts is to do the work yourself. I encourage working with other people on the course concepts. When you begin to write the program, complete and submit your own work.

Work that has obviously been copied or in the more extreme case, when the original authors name has not even been changed, both parties will receive a 0 grade for that assignment. Both parties will also be turned over to the Office of Judicial Affairs.

**Schedule**

(always subject to changes) Always have readings scheduled for that day complete prior to the class meeting

<table>
<thead>
<tr>
<th>#</th>
<th>Date</th>
<th>Topic</th>
<th>Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>September 4</td>
<td>No Class</td>
<td>Chapter 1</td>
</tr>
<tr>
<td>2</td>
<td>September 6</td>
<td>Introduction</td>
<td>Chapter 2</td>
</tr>
<tr>
<td>3</td>
<td>September 11</td>
<td>Basic design and control</td>
<td>Chapter 1.6, 3.1, 4.2 Lab 1(this week)</td>
</tr>
<tr>
<td>4</td>
<td>September 13</td>
<td>Representing information/Scoping</td>
<td>Chapter 2</td>
</tr>
<tr>
<td>5</td>
<td>September 18</td>
<td>Introduction to methods</td>
<td>Chapter 5</td>
</tr>
<tr>
<td>6</td>
<td>September 20</td>
<td>Methods</td>
<td>Project 1, Lab 2</td>
</tr>
<tr>
<td>7</td>
<td>September 25</td>
<td>Control Flow: Decisions</td>
<td>Chapter 3</td>
</tr>
<tr>
<td>8</td>
<td>September 27</td>
<td>Control Flow: Iteration</td>
<td>Chapter 4</td>
</tr>
<tr>
<td>9</td>
<td>October 2</td>
<td>Programming Iteration</td>
<td>Project 2, Lab 4</td>
</tr>
<tr>
<td>10</td>
<td>October 4</td>
<td>Assignment and operators</td>
<td>Chapter 2</td>
</tr>
<tr>
<td>11</td>
<td>October 9</td>
<td>Buffered I/O and files</td>
<td>Chapter 4</td>
</tr>
<tr>
<td>12</td>
<td>October 11</td>
<td>Midterm Examination</td>
<td>Lab 5</td>
</tr>
<tr>
<td>13</td>
<td>October 16</td>
<td>Arrays</td>
<td>Chapter 8</td>
</tr>
<tr>
<td>14</td>
<td>October 18</td>
<td>Arrays</td>
<td>Project 3, Lab 6</td>
</tr>
<tr>
<td>15</td>
<td>October 23</td>
<td>Objects as data</td>
<td>Lab 7</td>
</tr>
<tr>
<td>16</td>
<td>October 25</td>
<td>Objects and Arrays</td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>October 30</td>
<td>Using Objects, Wrappers, ArrayList</td>
<td>Chapter 9, 10</td>
</tr>
<tr>
<td>18</td>
<td>November 1</td>
<td>Using object: StringBuilder</td>
<td>Chapter 10</td>
</tr>
<tr>
<td>19</td>
<td>November 6</td>
<td>Using Objects: Hasules</td>
<td>NO LAB THIS WEEK</td>
</tr>
<tr>
<td>20</td>
<td>November 8</td>
<td>Review</td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>November 15</td>
<td>Final Exam</td>
<td>3:15 - 5:15 pm</td>
</tr>
</tbody>
</table>