CS 202-950 – Introduction to Computer Science - Spring 2015

Instructor
Bill Cheng, phone 453-6032, billcheng@cs.siu.edu

Office Hours
MWF 9am – 10am, FANER 2132
WF noon-1pm, FANER 2132
M 3pm – 4pm, FANER 2132

TA
Faraz Fallahi, faraz@siu.edu

Office Hours
TWR 1pm – 3pm

Textbook

Grading Policy

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<tbody>
<tr>
<td>Mid-Term</td>
<td>25%</td>
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<tr>
<td>Final</td>
<td>25%</td>
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<td>Quiz</td>
<td>10%</td>
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<tr>
<td>Assignment</td>
<td>30%</td>
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<td>Discussion</td>
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Grade | Score
-----|------
A     | >= 90%
B     | (80%, 90%)
C     | (70%, 80%)
D     | (60%, 70%)
F     | < 60%

[ = inclusive   ] = exclusive

Mid-Term
Wed March 4, 2015

Comprehensive Final
Wed May 13, 2015

Spring Break

Goals of the Course
- To provide a basic understanding and the fundamentals of computer hardware and software.
- To learn programming and object-oriented design using Java.
- To learn a disciplined and structured approach to the development of computerized solutions to problems.
- To obtain a good foundation for further study in computer science.
Course Topics and Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1</td>
<td>Main, entry point and variables</td>
</tr>
<tr>
<td>2</td>
<td>Getting user input, math operators and increment operators</td>
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<tr>
<td>3</td>
<td>If, Logical operator and switch statement</td>
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<td>4</td>
<td>While, For and do while loops</td>
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<td>5</td>
<td>Classes and methods</td>
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<td>6</td>
<td>Methods and constructors</td>
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<td>7</td>
<td>Nested if, if-else, and conditional operators</td>
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<td>8</td>
<td>Math class and random generator</td>
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<td>9</td>
<td>Array</td>
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<td>10</td>
<td>For each loop and multi-dimensional array</td>
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<td>11</td>
<td>Encapsulation with access modifiers (public, private and protected), this keyword and multiple constructors</td>
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<tr>
<td>12</td>
<td>Getter and setter, overriding and enumeration</td>
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<tr>
<td>13</td>
<td>Static, final and inheritance</td>
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Important Course Information

- While most of the course topics will be covered in class, and there is a great deal of online material about Java programming, you are still expected to read the assigned sections in the required textbook.
- Because of time limitations, not everything you should learn from this class can be covered in the lectures. You may be tested on assigned material in the text even if it has not been discussed in class.
- Most of the course grade will be based on the exams, and students will be required to write code on the exams. Don’t expect to get a good grade for the course if you do well on the labs and homework, but then do poorly on the exams.
- Programs that do not compile or do not run at least partially, will generally not be graded (i.e., we will not grade by examining source code). Such submissions will be assigned a score of 0. No appeals.
- Again, start your assignments early enough so you are not faced with a 99% complete program that nonetheless receives a zero.
- All programming for the course will be done with the Java programming language.
- We will have discussion and each student should contribute to the discussion area since credits will be given based on the contribution. You may ask/respond in the discussion area by every Thursday 11:59 p.m. (GMT-6, Central Time). Any time later than that will not be given any credits.

Cheating

- A major goal of this course is to teach each and every student certain basic programming skills. When students work collaboratively on a programming assignment, it is nearly always the case that some team members will not learn everything they should from the assignment, and team grades will not reflect what every team member has learned. Thus, unless you are told specifically that you
may collaborate on an assignment, all homework and labs in this course are expected to be done independently! If you receive any substantive assistance from fellow students, friends, computer support personnel, or from code you find on the web, you will be considered to have cheated. If you have questions about an assignment, talk with the instructor or the TA only.

- Students caught cheating will receive zeros for the assignment. Second infractions may result in an ‘F’ for the course and lead to suspension from taking CS courses or even suspension from SIUC. This policy will be announced in class, and you will considered to be aware of it if you continue to be enrolled in the course.

- Likewise, you are not to provide substantive support to a classmate: the person providing this type of assistance will be considered just as guilty of cheating as the person receiving the assistance! In general, you should not discuss methods for accomplishing the assignments with other students.

- The main point of homework and labs are to get student to practice the material so that they do well on the exams. While cheating may get you a higher homework/lab score, you will almost certainly perform much worse on the exams, so in the long run having cheated will harm you rather than help you. It is better to struggle with a lab and get a 50% but learn something, than to turn in somebody else’s work and get 100% but learn nothing. Your grade is mainly going to be determined by your exam performance!

- CS202 is the prerequisite for CS220 and it (CS220) will not cover basic programming.

Emergency Procedures

Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the SIUC Emergency Response Plan and Building Emergency Response Team (BERT) program. Emergency response information is available on posters in buildings on campus, available on BERT’s website at www.bert.siu.edu, Department of Safety's website www.dps.siu.edu (disaster drop down) and in Emergency Response Guideline pamphlet. Know how to respond to each type of emergency.

Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency. The Building Emergency Response Team will provide assistance to your instructor in evacuating the building or sheltering within the facility.