Outline

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Introduction

• Who Am I?
  • Scott Johnson
  • Lecturer
• Office: GOL-3647
• Email: scj@cs.rit.edu
  • Include CSCI142 in the subject line
• Office Hours:
  • Mon/Weds 2-3pm
  • By appointment
  • Or just come by!
• RIT Alumni ‘14
Introduction

• What is this course?
  • CSCI142: Computer Science II
• Description
  • This course delves into data structure and design with an object-oriented perspective. Topics include tree and graph structures, nested data structures, objects, classes, inheritance, interfaces, object-oriented collection class libraries for abstract data types (e.g. maps) and static vs. dynamic data types. Input and output streams, graphical user interfaces, and exception handling are also covered.

  Concepts of object-oriented design are a large part of the course. Software qualities related to object orientation, namely cohesion, minimal coupling, modifiability, and extensibility, are introduced in this course, as well as some object-oriented design patterns. The course also introduces use of a modern integrated software development environment (IDE).

  Programming projects will be required. (pre-requisites: CSCI 141)
Introduction

• What is this course?
  • CSCI142: Computer Science II

• Course Outcomes
  • Students will apply the theory and principles of computer science. Evaluation: group problem-solving reports, laboratory assignments, projects, and exams.

  • Students will demonstrate fluency in high-level programming languages, environments, and tools for computing. Evaluation: laboratory assignments and projects.

  • Students will prepare technical documents and make effective oral presentations. Evaluation: group problem-solving reports.
Introduction

• What is this course?
  • CSCI142: Computer Science II

• Course Policies
  • Development of code and writings for labs and other graded work is an individual responsibility. The only parts of team-developed work are the team part of the project and the joint problem-solving hard-copy exercises; all assignments must be the result of individual effort, not teamwork.

  • Submitting individual work written by others or as an unsanctioned team is considered an act of academic dishonesty. Although students may discuss assignments and projects with others, all individually submitted writings and code must be created independently by the student and not copied from others or other sources. Team-developed work also must be created solely by team members and not copied from others or other sources unless with prior instructor approval. In cases where a student is suspected of cheating or copying material, the instructor shall act in accordance with http://www.rit.edu/academiaffairs/policiesmanual/d080.

  • See course website for other policies governing Rescheduling and Exam, Course Withdrawal, Disability Services, and Academic Integrity.
Introduction

• What is this course?
  • CSCI142: Computer Science II

• Required Material
  • No required textbook!

• Additional Resources
  • See http://www.cs.rit.edu/~csci142/resources.html
  • Optional Textbooks
    • Object-Oriented Analysis and Design, by Brahma Dathan and Sarnath Ramnath
    • Java Precisely 2nd Edition by Peter Sestoft
Introduction

- **What is this course?**
- **CSCI142: Computer Science II**
- **Grading**

<table>
<thead>
<tr>
<th>Component Elements</th>
<th>Weight</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assignments Component</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Project 1</td>
<td>10%</td>
<td>The first project is usually given out around week 5 and is due around week 9.</td>
</tr>
<tr>
<td>Project 2</td>
<td>15%</td>
<td>The second project is usually given out around week 10 and is due around week 15.</td>
</tr>
<tr>
<td>Labs</td>
<td>25%</td>
<td>Labs are usually due in one week. MyCourses’ dropboxes have the due dates.</td>
</tr>
<tr>
<td>Tests Component</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exam 1</td>
<td>15%</td>
<td>The first written exam (2 hours) is usually given around week 6. There is no practical.</td>
</tr>
<tr>
<td>Exam 2</td>
<td>15%</td>
<td>The second written exam (2 hours) is usually given around week 12. There is no practical.</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
<td>The final is a 2 hour, comprehensive, written exam, during final exam week.</td>
</tr>
</tbody>
</table>

- 92% or above: A
- at least 89% but under 92%: A-
- at least 85% but under 89%: B+
- at least 82% but under 85%: B
- at least 79% but under 82%: B-
- at least 75% but under 79%: C+
- at least 72% but under 75%: C
- at least 69% but under 72%: C-
- at least 60% but under 69%: D
- under 60%: F
Introduction

• What is this course?
  • CSCI142: Computer Science II
  • The Grade Limit Rule
    • Same as CS1

  • Your whole course grade may only be at most 10 points more than the average grade of the elements of your worse component.

  • Here is an example. Let's say you got a 71% average on the Tests Component elements, A 93% average on the Assignments Component elements. In this case, your course grade would be limited to 81% (a B-) which is 10% above your Tests component grade. (Without the course rule, your final weighted grade would be $71 \times .5 + 93 \times .5 = 82\%$, which is a B.)
Introduction

- What is this course?
  - CSCI142: Computer Science II

- Minimum Passing Grade
  - The prerequisite for CSCI 243 (Mechanics of Programming) is either CSCI 140 with a minimum grade of C- or CSCI 142 with a minimum grade of C- or CSCI 242 with a minimum grade of C-.

- Grade Appeals
  - Questions may arise regarding an item of graded work.
  - Grade appeals must be raised within one week after the day on which the grade was received.
  - Otherwise, a grade becomes permanent one week after the student received the grade.
Introduction

• What is this course?
  • CSCI142: Computer Science II

• Course Logistics
  • Meet 3 times a week
  • Different types of meetings:
    • Exams
    • Problem solving/lab
    • Lecture
    • Recitations
  • Meet for a total of 5 hours most weeks:
    • 2 hours lecture
    • 2 hours lab/problem solving
    • 1 hour recitation
  • You will be divided into groups today
    • Will determine when you come to lab/recitation
    • Groups will not change
    • Midway the groups will swap lab/recitation day
    • Similar to CS1!
Introduction

• What is this course?
  • CSCI142: Computer Science II
• Assignments
  • No homework in this course!
  • 8 labs (*individual work*)
    • Labs will consist of:
      • Problem Solving (15%)
      • In-lab (10%)
      • Out-of-lab (75%)
  • No makeups for missing PS or In-lab
  • Failure to submit a lab will result in a lose of the Out-of-lab portion
  • 2 Multi-part Projects
    • *Depending on the project, you will work alone or in teams*
  • Late Submission for Projects and Labs
    • There is an 8 hour late submission window
    • Submitting late will result in a 20% reduction in your earned score
  • Examples:
    • If you received a 100% it becomes a 80%
    • If you received a 80% it becomes 64%
    • If you received a 60% it becomes 48%
Introduction

• What is this course?
  • CSCI142: Computer Science II

• Recitations
  • Meets in classroom the second hour of your non-lab day
  • TA will review week’s material, do practice exercises, answer questions
  • Attendance is taken and required!
    • For my sections: failure to attend at least 75% of the recitations will result in a 5% reduction in your overall course grade.

• Exams:
  • Exam weeks have different logistics
  • Maybe lecture and/or PS/lab in the same week
  • The schedule will contain the details
  • http://cs.rit.edu/~csci142/
Introduction

• What is this course?
  • CSCI142: Computer Science II

• Getting Help!
  • Office Hours
  • Recitations
  • Mentoring Center
  • Email TA/SLI/Instructor
  • MyCourses discussions
  • SI Review Sessions
  • TA Exam Review Sessions
  • SSE and CSC Exam Review Sessions
  • SSE Tutoring Center

• Help it is there, Ask for it!
Introduction