CS150.001 – Introduction to Computing II – Summer 20 Online

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Objective: Algorithmic problem solving with a modern programming language. Language syntax; basic design methods; algorithms; abstraction.

Prerequisite: CS140 - Introduction to Computing I

zyBook: Subscribe at learn.zybooks.com, code: SIUECS150TornaritisSummer2020, section 001

Course website: The instructor’s web site at www.cs.siue.edu/~stornar. The site lists instructor schedule and assigned course TAs.

Moodle: The course management site, used for this course, accessed at classes.cs.siue.edu. Get access to all supplemental course material, e.g. syllabus, zoom links, code examples, quizzes, concept slides and applicable session videos.

IDE: BlueJ is our choice of development environment, and a free copy of the IDE and JDK bundle can be downloaded from www.bluej.org/

Assessment: The following assessment measures will be used.

A [≥ 900], B [≥ 800], C [≥ 700], D [≥ 600], F [< 600]

Reading - weekly zyReadings. A 90% completion on each will earn you full marks. Due 7:00a.

Homework - weekly zyLabs. Available Monday 8:00a. Due Friday 7:00a.

Quiz - Weekly on moodle. Open 12:00a-11:59p, 10 min long.

Midterm - on moodle, covers wk 1-3. Open 12:00a-11:59p, 1 hour long.

Endterm - on moodle, covers wk 4-6. Open 12:00a-11:59p, 1 hour long.

Final - on moodle, covers wk 1-10. Open 12:00a-11:59p, 1 hour long.

Class delivery: The course delivery mode will be fully online. This implies a total asynchronous mode of delivery with out required set time periods for class meetings. The student is in total control of when the learning happens, but with due dates imposed on readings and homework.

Each week, students will have the opportunity to read the assigned chapters before the start of the week, and work on the assigned homework due by the end of the week.

Submission policy: No late submissions will be accepted for any reason. It is the student’s responsibility to submit all work on time and by any means, so please have a backup to prevent any failure to submit. Always double check your submission.

Make-up policy: In order to be considered for a make-up, a student must be proactive and not reactive. Students should inform the instructor of any scheduled absence or difficulty in meeting a deadline, in advance (proactive) not after the fact (reactive). On special unforeseen occasions such as a medical emergency, family hardship, natural disaster or anything that is out of a student’s control, the instructor should be notified as soon as possible and proper documentation should substantiate the absence. The instructor will have the final say in all such decisions regarding make-ups and assessed penalties if applicable.

Course Material: Do not post any provided material for this course on any publicly available location, such as social media or shared cloud drives. Materials provided for the course that are provided by the instructor, other SIUE instructors and the textbook publisher may not be reproduced and/or posted to any electronic repository that is accessible to anyone except yourself. That is, no material for this course may be shared or posted by you or linked by you to any outlet such as (but not limited to) social media sites, web pages or public folders on cloud storage systems (such as Dropbox, Google Drive or OneDrive). All materials (whether behind secure sites or publicly available) are for your use only in this course and the creators do not grant permission for any other use.

Support services:

Option 1: Students needing accommodations because of medical diagnosis or major life impairment will need to register with Accessible Campus Community & Equitable Student Support (ACCESS) and complete an intake process before accommodations will be given. Students who believe they have a diagnosis, but do not have documentation, should contact ACCESS for assistance and/or appropriate referral. The ACCESS office is located in the Student Success Center, Room 1203. You can also reach the office by emailing us at myaccess@siue.edu or by calling 618-650-3726.

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If you feel you would need additional help in the event of an emergency situation, please notify your instructor to be shown the evacuation route and discuss specific needs for assistance.

**Option 2:** It is the policy and practice of Southern Illinois University Edwardsville to create inclusive learning environments. If there are aspects of the instruction or design of this course that result in barriers to your inclusion or to accurate assessment of achievement—such as time-limited exams, inaccessible web content or the use of non-captioned videos—please contact Accessible Campus Community and Equitable Student Support (ACCESS) as soon as possible. In order to properly determine reasonable accommodations, students must register with ACCESS either online at siue.edu/access or in person in the Student Success Center, Room 1203. You can also reach the office by emailing us at myaccess@siue.edu or by calling 618-650-3726.

If you feel you would need additional help in the event of an emergency situation, please notify your instructor to be shown the evacuation route and discuss specific needs for assistance.

**Academic misconduct:** Academic honesty is a serious issue at SIUE, in the School of Engineering, in the Department of Computer Science, and with this instructor. Penalties for dishonest behavior will be severe. Even a single occurrence of plagiarism of English text, or program code, within a graded activity (e.g., homework, project, or exam) is grounds for academic discipline and a letter grade of ‘F’ in the course.

**Expectations:** Learning is an active process not a passive one, so as an Instructor I expect students to come to class prepared, having read all relevant material (book, notes, code) before as well as after class meetings. Don’t be afraid to ask questions or seek answers. Have an open mind and a willingness to learn and adopt alternative methodologies and practices. It takes two participants to transfer knowledge, the instructor and the learner. If one is absent the other suffers.

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<th>wk</th>
<th>Topic</th>
<th>M</th>
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<td>Classes / Exceptions</td>
<td>06/01</td>
<td>06/03</td>
<td>06/05</td>
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<td>2</td>
<td>Inheritance / Polymorphism</td>
<td>06/08</td>
<td>q1</td>
<td>r2</td>
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<td>3</td>
<td>Abstract Classes / Interfaces</td>
<td>06/15</td>
<td>q2</td>
<td>r3</td>
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<td>4</td>
<td>Generics</td>
<td>06/22</td>
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<td>r4</td>
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<td>5</td>
<td>Recursion</td>
<td>06/29</td>
<td>q3</td>
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<td>6</td>
<td>Searching / Sorting</td>
<td>07/06</td>
<td>q4</td>
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<td>7</td>
<td>Stack</td>
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<td>Queue</td>
<td>07/20</td>
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<td>9</td>
<td>Linked List</td>
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<td>10</td>
<td>Dummy Linked List</td>
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