DEPARTMENT OF COMPUTER SCIENCE

CMPS 161
Algorithm Design and Implementation I
Summer 2022

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Office Hours: Mon 01:45PM - 03:30PM


Course Description: Credit 3 hours. Prerequisite: Registration in or prior credit for Mathematics 151 or 161, or permission of the Department Head. Basic concepts of computer programming, problem solving, algorithm development, and program coding using a high-level, block-structured language. Credit may be given for both Computer Science 110 and 161.

Schedule (Tentative):

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<th>Week #</th>
<th>Week of</th>
<th>Topics to be Covered</th>
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<tr>
<td>1</td>
<td>05/30</td>
<td>Syllabus</td>
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<tr>
<td>2</td>
<td>06/06</td>
<td>Chap01: Introduction to Computers, Programs, and Java</td>
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<td>3</td>
<td>06/13</td>
<td>Chap02: Elementary Programming</td>
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<td>4</td>
<td>06/20</td>
<td>Chap03: Selections Chap04: Mathematical Functions, Characters, and Strings</td>
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<td>5</td>
<td>06/27</td>
<td>Chap05: Loops</td>
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<td>6</td>
<td>07/04</td>
<td>07/04 Independence Day Holiday</td>
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<td>7</td>
<td>07/11</td>
<td>Chap06: Methods Midterm</td>
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<td>8</td>
<td>07/18</td>
<td>Chap07: Single-Dimensional Arrays Chap08: Multidimensional Arrays</td>
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<td>9</td>
<td>07/25</td>
<td>Final Exam</td>
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07/07: Last day to withdraw or resign from the university
07/28: Last day to return rental textbooks without a fine

Grading Policy:

Programs/Homework/Quizzes 140 points (28%)
Midterm 160 points (32%)
Final Examination 200 points (40%)
Total 500 points (100%)

A: 450 – 500 points; B: 400 – 449 points; C: 350 – 399 points; D: 300 – 349 points; F: 0 – 299 points
Attendance Policy: Attendance is mandatory for all sessions of this course. Absences will be excused only with a valid written excuse, such as from a physician. [http://www2.selu.edu/Academics/Depts/FacSen/attendancepolicy.pdf](http://www2.selu.edu/Academics/Depts/FacSen/attendancepolicy.pdf)

Program/Homework: Programs/Homework will be collected periodically. Selected problems will be graded. No late Programs / homework will be accepted.

Quizzes: There will be a number of quizzes during this term. No makeup quizzes will be given.

Examinations: There will be a midterm and a final examination. No makeup examinations will be given. If you miss an examination with an excused absence, your grade for this missed examination will be replaced of your final examination. In the case of illness, doctor’s excuse is needed. If your absence is unexcused, you will receive a grade of zero on the examination you missed.

Academic Integrity: Students are expected to maintain the highest standards of academic integrity. Behavior that violates these standards is not acceptable. Examples are the use of unauthorized material, communication with fellow students during an examination, attempting to benefit from the work of another student and similar behavior that defeats the intent of an examination or other classwork. Cheating on examinations, plagiarism, improper acknowledgment of sources in essays and the use of a single essay or paper in more than one course without permission are considered very serious offenses and shall be grounds for disciplinary action as outlined in the Academic Integrity Policy.

ADA Accommodation: If you are a qualified student with a disability seeking accommodations under the Americans with Disabilities Act, you are required to self-identify with the Student Accessibility Services, Tinsley Hall 102. No accommodations will be granted without documentation from Student Accessibility Services.

Classroom Decorum: Free discussion, inquiry, and expression are encouraged in this class. Classroom behavior that interferes with either (a) the instructor’s ability to conduct the class or (b) the ability of students to benefit from the instructor is not acceptable. Examples include routinely entering class late or departing early; use of beepers, cellular telephones, or other electronic devices; repeatedly talking in class without being recognized; talking while others are speaking; or arguing in a way that is perceived as “crossing the civility line.” In the event of a situation where a student legitimately needs to carry a beeper or cellular telephone to class, prior notice and approval of the instructor is required.

The office/classroom is not a place for children and neither employees nor students are to bring their family members for day care or baby sitting. If children require care, then the employee/student is expected to provide that care in an environment other than Southeastern office/classroom space.

Emergency Plan: To ensure the continuity of courses in the event of a natural disaster or similar emergency, the following plan will be implemented: (1) At the start of the semester, students need to download the syllabus and course schedule to their Google drive. Google drive will remain accessible during a disaster. (2) In the event a student must evacuate his/her home, if possible bring textbooks, notebooks and other class materials. (3) Check email at least once per day. As Gmail is a reliable, cloud-based service, E-mails will be our primary means of communication. (4) Continue to follow the weekly schedule from the syllabus. This includes reading the chapter, viewing power-point slides, and doing homework and labs. (5) Monitor [www.southeastern.edu](http://www.southeastern.edu) periodically for information on campus closures.