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# Programming II

CSC 218 – Wesleyan College

Syllabus

Summer 2024, May 13 - June 14

## Professor Contact Information

**Professor:** TBA

**Office Hours:** by appointment

**Contact Information:** TBA

**Text/ISBN:** *Absolute Java*; 6th Ed.; Walter Savitch, Kenrick Mock, ISBN-13: 9780134041674

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## Policies and Procedures

### Course Goals

To continue the study of fundamental concepts of programming applied to problem solving and to introduce students to the major data structures and their use in computer science.

### Prerequisite

CSC 216 Programming I

### Credit Hours

3

### Course Objectives

These objectives are directed toward the following general education expected outcomes of the college:

- **Analytical and Critical-Thinking Skills:** Students should be able to reason and think analytically in solving problems and making decisions.
- **Mathematical Skills:** Students should be able to understand and apply fundamental mathematical concepts in solving problems.
- **Communication Skills:** Students should be able to read and listen with understanding and to communicate clearly and effectively in writing and speaking.
- **Information Technology Skills:** Students should be able to appropriately use computer software in solving various problems and accomplishing various tasks.

### UPON COMPLETION OF THE CLASS, STUDENTS SHOULD HAVE AN UNDERSTANDING OF:

1. Object-oriented principles: encapsulation, inheritance, and polymorphism



2. Software engineering principles: algorithm analysis and data abstraction
3. More in-depth understanding of object-oriented modeling.
4. Design patterns: single responsibility, open-closed principle, strategy, builder, dependency injection
5. Input/Output files in data storing and processing.
6. Recursion and recursive data structures.
7. Exception handling and debugging.
8. More powerful sorting and searching methods.
9. Graphical user interface

### **Participation and Grading**

Your grade in this course will be determined by your performance in the following categories:

<b>Assignments</b>	<b>Percentage</b>
Projects	50%
Quizzes/Exams	30%
Homework	10%
Participation	10%
<b>Total</b>	<b>100%</b>

### **Grading Scale:**

The grading scale in the class will be as follows:

- A=90-100%
- B=80-89%
- C=70-79%
- D=60-69%
- F=59% And Below

You may track your running point total throughout the term via our course site. Please be aware, however, that the course grade you see in the site will reflect only assignments and activities you have already completed and that your professor has graded.

### **Academic Integrity**

Wesleyan's College expects student to show integrity in all of their work. Cheating, plagiarism, unauthorized collaboration, inventing or falsifying information, turning in work for more than one class without authorization, or helping someone else are all violations of the Honor Code and are not tolerated. Any of these forms of cheating will not be tolerated and will be grounds for a grade of zero on the exam or assignment and a grade of F for the course, in addition to any penalties imposed by the Provost.



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## Potential Changes to Course Schedule

The following week-to-week schedule is a general plan for the course. Deviations may be necessary and will be announced in advance via announcement and/or e-mail. Students should check their course site announcements and emails at least once every twenty-four hours throughout the term to watch for updates regarding this course.

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## Course Schedule

### Week 1

Chapter 3 Flow of Control  
Chapter 4 Defining Classes I (1)

### Week 2

Chapter 4 Defining Classes I (2)  
Chapter 5 Defining Classes II (1)

### Week 3

Chapter 5 Defining Classes II (2)  
Chapter 7 Inheritance

### Week 4

Chapter 8 Polymorphism And Abstract Classes  
Chapter 10 File I/O

### Week 5

Chapter 11 Recursion

## Civility in the Academic Community

Students, faculty, and staff are expected to treat one another with respect in all interactions both during class meetings and on the Moodle course site. Rude, disruptive and/or disrespectful behaviors as determined by a faculty member interfere with other students' rights and with the professor's ability to teach. Therefore, any student exhibiting unacceptable behaviors during a class meeting or Moodle collaborative activity will be asked to leave and will be counted absent for that class period or activity. Failure to cooperate with this process will result in disciplinary action that may include withdrawal from the class or dismissal from the College. Violations will be reported to the Provost.



## **Disabilities Statement**

Wesleyan College is committed to equal education, full participation and access to facilities for all students. Any student who requires reasonable academic accommodations, use of auxiliary aids or facility access for a class must first register with Disability Resources by contacting Jill Amos, Director of Disability and Advocacy Services, [jamos@wesleyancollege.edu](mailto:jamos@wesleyancollege.edu) or (478) 757-5219. If reasonable accommodations are established, students should request Accommodation Letters from Disability Resources then schedule an appointment to meet with the professor to determine how the accommodations will be implemented for each class as early in the semester as possible. Accommodations require advance notice to implement and will not be retroactively administered for the semester. Accommodations that decrease the integrity of a course will not be approved.

## **Privacy in Teaching & Learning Spaces**

In order to promote an environment in which ideas may be freely expressed, the interior offices; in-person and virtual classrooms; and Moodle course sites at Wesleyan are private spaces. The unauthorized creation of photographic images, audio recordings, or video recordings of students or faculty in these spaces is considered to be disruptive behavior which may result in a student's removal from class according to the professor's discretion. The distribution of unauthorized images or recordings, or of class meeting recordings shared by a professor for instructional purposes, without the express written permission of the College is strictly prohibited and is subject to disciplinary action by the Provost of the College.