



DAVIS UNIVERSITY

COURSE SYLLABUS
DSC114: COMPUTER PROGRAMMING II
SUMMER QUARTER 2025

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COURSE SYLLABUS FOR: DSC114 COMPUTER PROGRAMMING II

CREDIT HOURS: 5 CREDITS

INSTRUCTOR:

INSTRUCTOR EMAIL:

INSTRUCTOR OFFICE HOURS:

COURSE DESCRIPTION: In this course, we will continue to study the basic concepts of programming applied to problem-solving and the major data structures and their use in computer science.

PREREQUISITES: Computer Programming I

TEXT: (1) Data Abstraction and Problem Solving with Java: Walls and Mirrors (3rd Edition) by Janet Prichard, Frank M. Carrano, ISBN-10: 0132122308 ISBN-13: 978-0132122306

(2) Absolute Java, 6th edition by Walter Savitch University of California, San Diego Kenrick Mock Published by Pearson (June 9, 2015), ISBN-13: 9780133947793

LATE WORK POLICY: All students are expected to submit homework assignments electronically on the date specified on the syllabus No late homework will be accepted and the student will receive a "0" (zero) for the homework assignment. Should the student refuse to complete the assigned work for the class, it could result in the student failing the class. All work assigned is expected to be completed on the date assigned. The instructor reserves the right to

alter the schedule as necessary. Please be sure to check your email/Moodle for any changes to the schedule.

PLAGIARISM AND COPYRIGHT INFRINGEMENT POLICY: Work that is found to be plagiarized receives a grade of zero and often causes a student to fail a class. Documentation of plagiarism is added to the student's academic file as a violation of accepted student conduct and is subject to disciplinary action. Plagiarism is the use of another person's exact words, or their ideas written in the student's words without giving the original author credit.

Plagiarism can result from any of the following:

- Quote material directly without using quotation marks.
- Paraphrase the original so that many of the phrases are the same as the original. A good rule is no more than 3 or 4 words in a row should be the same as the original.
- Copy the original sentence pattern, substitution synonyms for key words.
- Neglect to indicate the source of the original material.

ASSESSMENTS:

Content

| | |
|-----------------|------|
| Lab Assignments | 40% |
| Midterm Exam | 25% |
| Final Exam | 25% |
| Participation | 10% |
| Total | 100% |

COURSE GRADE: A = 93%-100%

B = 85%-92%

C = 77%-84%

D = 70%-76%

F = below 70%

TENTATIVE CLASS SCHEDULE:

(Subject to change)

| Week | Content Covered | Assignments & Assessment Due |
|----------------|---|---|
| Week 1: | Flow of Control, Classes (Chapter 3, Chapter 4 of Textbook 2) | Lab:Program 1-Friday |
| Week 2: | Inheritance and Polymorphism (Chapter 5, Chapter 7, and Chapter 8 of Textbook 2) | Lab:Program 2-Friday |
| Week 3: | OO Design, Exceptions, Arrays (Chapter 6 and Chapter 9 of Textbook 2) | Lab:Program 3-Friday Midterm Exam-Thursday |
| Week 4: | Sorting, Searching, Linked List, List (Chapter 4 and Chapter 5 of Textbook 1) | Lab:Program 4-Friday |
| Week 5: | Stack and Queue, Recursive Algorithms, Time Complexity, File (Chapter 3, Chapter7, Chapter 8, Chapter 10 of Textbook 1) | Lab:Program 5-Thursday Final Exam- Friday |