

Software Design and Development I Lab

CSCI 1581 Section P003

Fall Semester 2021

Saroj Duwal

email: sduwal@uno.edu (preferred)

Meets: 5:00 PM - 6:50 PM Tuesday
Room : Math 209

Student Hours: Wednesday 2 PM - 4 PM
Office hours will be held in discord.

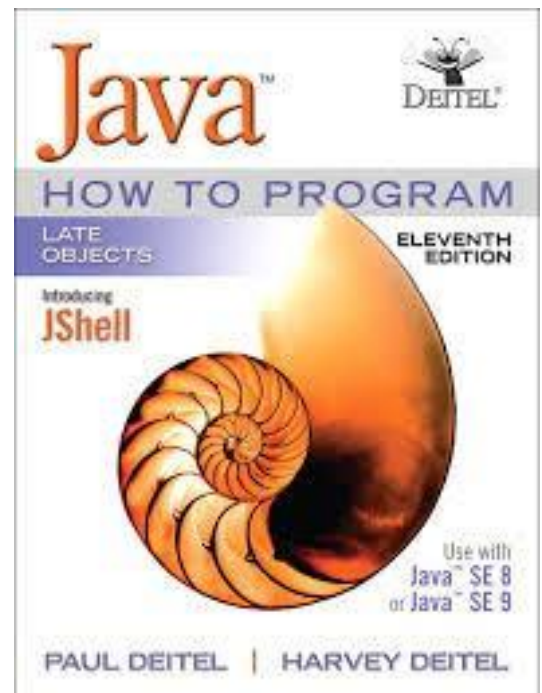
Prerequisite: Math 1115 with a grade of C or better or consent of department; **concurrent registration in CSCI 1583 is required.**

Text: Dietel and Dietel, *Java, How to Program, (Late Objects Version)* 11th Ed.

Course Content:

This lab supports the introductory course CSCI 1583. We will be putting into practice the concepts covered in the lecture. The topics covered (roughly Chapters 1 through 11) will be (we reserve the right to adjust as the term progresses):

- Introduction to Computers and Software Development
- Control Structures and Algorithmic Thinking
- Methods and Structured Programming
- Arrays
- Classes and Object-Oriented Programming Concepts
- Inheritance
- Polymorphism
- Exception Handling



- Object-Oriented Design

Laboratory:

The purpose of the lab (CSCI 1581) is to give you an environment to try out concepts in software design via the development of software fragments with a lab assistant. Attendance and completion of lab work is **mandatory**. Lab lectures will be recorded and posted in a timely manner.

Grading:

(1) Laboratory work (CSCI 1581) will comprise 10% of your final grade. Each lab will consist of a set of typically between 5 and 8 exercises. The exercises will be equally weighted on a 100 point grading scale. The labs will be graded for completion and correctness.

(2) Lab exercises must be submitted to both Autolab (autolab.cs.uno.edu) and Gitlab (gitlab.cs.uno.edu) to get full grades.

(3) You will receive the same grade for CSCI 1583 and CSCI 1581. Administrative constraints prevent us from offering the lecture and lab components as a single course. However, they are to be treated as such, hence the single, uniform grade.

(4) All work is graded on a numerical (percentage) basis. The correspondence between numerical and letter grades is given as follows:

A: ≥ 90 ,
B: 80 - 89,
C: 70 - 79,
D: 50 - 69,
F: < 50 .

(5) late assignments will not be accepted. You will be given 2 week for each lab class.

(6) No make-ups for graded work will be given except for legitimate (e.g., medical) reasons.

(7) The "I" grade (for incomplete) is given only in exceptional circumstances. (e.g. for missing the final exam because of medical reason).

Attendance:

The UNO Senate (Feb. 20, 2002) has made the taking of attendance a requirement for "developmental, 1000, and 2000 level courses." Attendance will therefore be taken at each class meeting. Although this is an "online course" in a very unusual semester due to the pandemic, attendance is mandatory and accounts for 10% of your final grade.

COVID-19 HEALTH-RELATED CLASS ABSENCES:

Students should evaluate their health status regularly, refrain from coming to campus if they are ill, and seek appropriate medical attention for treatment of illness. Students should notify (email) their instructors about their absence as soon as possible, so that accommodations can be made. In the event of COVID-19 illness, students should also complete the Campus Reporting Form <https://uno.guardianconduct.com/incident-reporting>. Please note that medical excuse may be required at the discretion of the department chair and/or college dean.

COVID 19 Guidelines:

In accordance with University COVID-19 guidelines, students must wear a facemask or facial covering in the classroom at all times, regardless of vaccination status. Students will be asked to leave the room if they fail to do so.

Academic Dishonesty:

Finally, we must call your attention to the University's policies regarding academic dishonesty (<http://www.uno.edu/studentaffairs/accountability.aspx>). Academic dishonesty includes cheating, plagiarism, and collusion. In particular, it includes "the unauthorized collaboration with another person in preparing an academic exercise" and "submitting as one's own any academic exercise prepared totally or in part for/by another." In the event of academic dishonesty, **the student will be assigned a grade of 0** on the exam or exercise, the student will be informed in writing of the action taken, and **a copy of this letter will be sent to the Assistant Dean for Special Student Services.**

Students with Disabilities:

It is University policy to provide, on a flexible and individualized basis, reasonable accommodations to students who have disabilities that may affect

their ability to participate in course activities or to meet course requirements. Students with disabilities are encouraged to contact their instructors and/or the Office of Disability Services to discuss their individual needs for accommodations.

Tentative Schedule of Study:

WEEK 1	Environment Setup
WEEK 2	Introduction to Software Engineering Concepts
WEEK 3	Memory Concepts and Primitive Types
WEEK 4	Control Structures I
WEEK 5	Control Structures II (in depth)
WEEK 6	Mid-Term I Review
WEEK 7	Methods I
WEEK 8	Methods II (in depth)
WEEK 9	Arrays & ArrayLists I
WEEK 10	Arrays & ArrayLists II (in depth)
WEEK 11	Introduction to Classes & Objects I
WEEK 12	Mid-Term II Review
WEEK 13	Classes & Objects II (in depth)
WEEK 14	Inheritance Final Week Review