

# CMPS 251

## Object Oriented Programming (OOP)

### Syllabus and Course Admin



Syllabus  
Java Fundamentals

**Dr. Abdelkarim Erradi**

Department of Computer Science & Engineering

**Qatar University**

# About the Instructor

- **Dr. Abdelkarim Erradi**

- **Office:** 132 Female Engineering Building
- **Phone:** 4403 4254

## **Office hours:**

- **Sunday 8:10am to 9:10am** at my office C07-132
- You can talk to me **after the class** if you have quick issues/questions
- **Best way to contact me is by Email**

[erradi@qu.edu.qa](mailto:erradi@qu.edu.qa)

# Course outcomes

- 1 • Understand and apply OOP Concepts: Abstraction, Encapsulation, Inherence and Polymorphism.
- Hands-on Experience with OOP in developing a solution of a computing problem
- Design and implement simple Graphical User Interfaces

# Your Grade is Based on:

<b>Lab Assignments</b>	20%	[4 out of 5]*
<b>Lab Project</b>	20%	[Delivered in 2 phases of 10% each]
<b>Quizzes</b>	15%	[4 out of 5 quizzes]*
<b>Midterm Exam</b>	20%	[Theory 20%] <b>Week 7</b>
<b>Final exam</b>	25%	[Theory 15% and Practical during the last lab 10%]

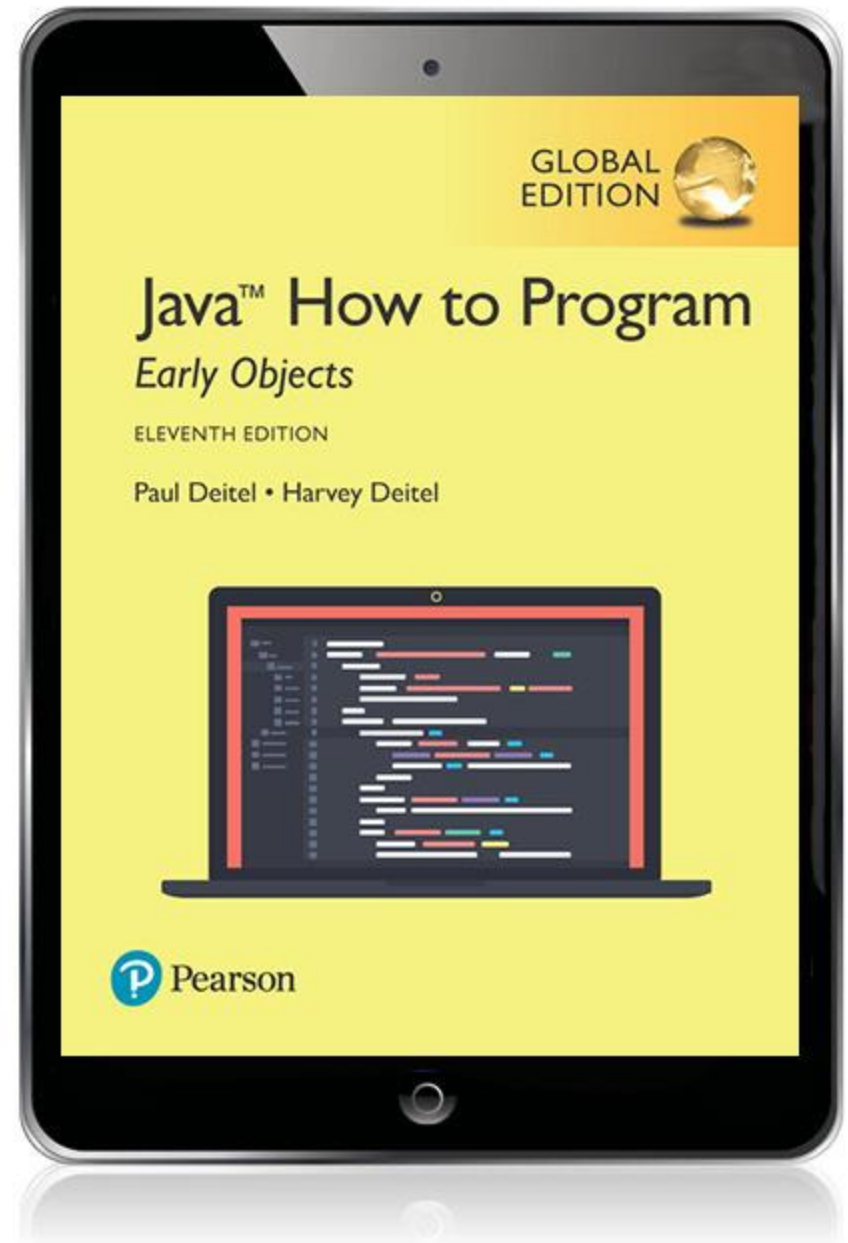
**\*No assignment or quiz make-up will be given**

# Topics

Topics	Chapter	Weeks
Introduction to Java	2, 4, 5	1
Object-oriented Programming Concepts	3, 6	2
Composition	8	1
Arrays, Lists, Lambdas and Streams	7, 17	2
Review and Midterm (during Week 7)		1
Inheritance	9	1
Polymorphism	10	1
Graphical User Interface (GUI)	12, 13	2
Managing data using files	15	1
Exception handling	11	0.5
String manipulation	14	0.5

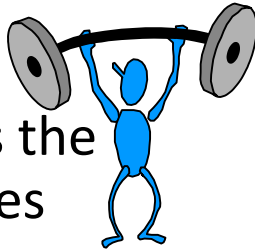
# The Textbook

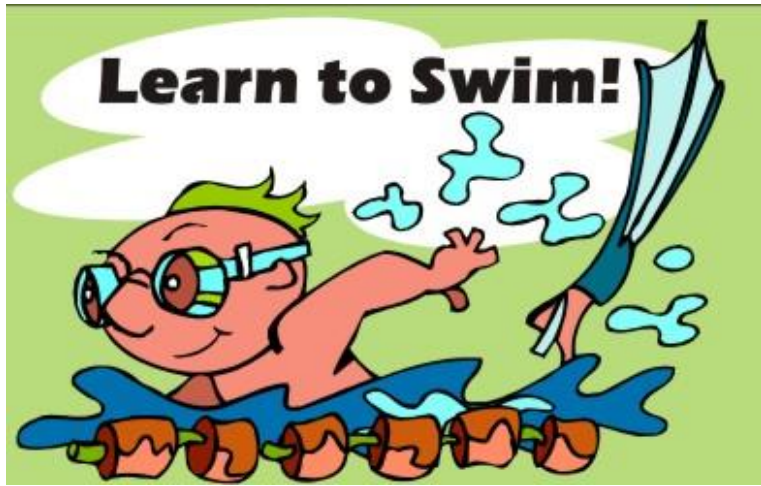
- *Java How to Program, by Deitel & Deitel, 11<sup>th</sup> Ed., Pearson*  
(Electronic copy)



# How to succeed in this course....

- ❑ Do your weekly textbook assigned readings
- ❑ **Read the slides before you come to the class**
- ❑ **Exercise a lot – study as many examples as possible**
  - Understand and enhance the examples I provide as well as the ones in the textbook and the ones in the provided resources
- ❑ **Attend and participate in class and do not miss the Labs**
  - ❑ Many of the exam questions are from the class explanation
- ❑ Do all the assignments and projects yourself. Actively contribute to your project.
- ❑ **Start your assignments early!!!**
- ❑ Seek help when needed and ask questions (and do it EARLY): During lectures, Labs & Come to office hours





We learn swimming by swimming and we learn design and programming by programming!

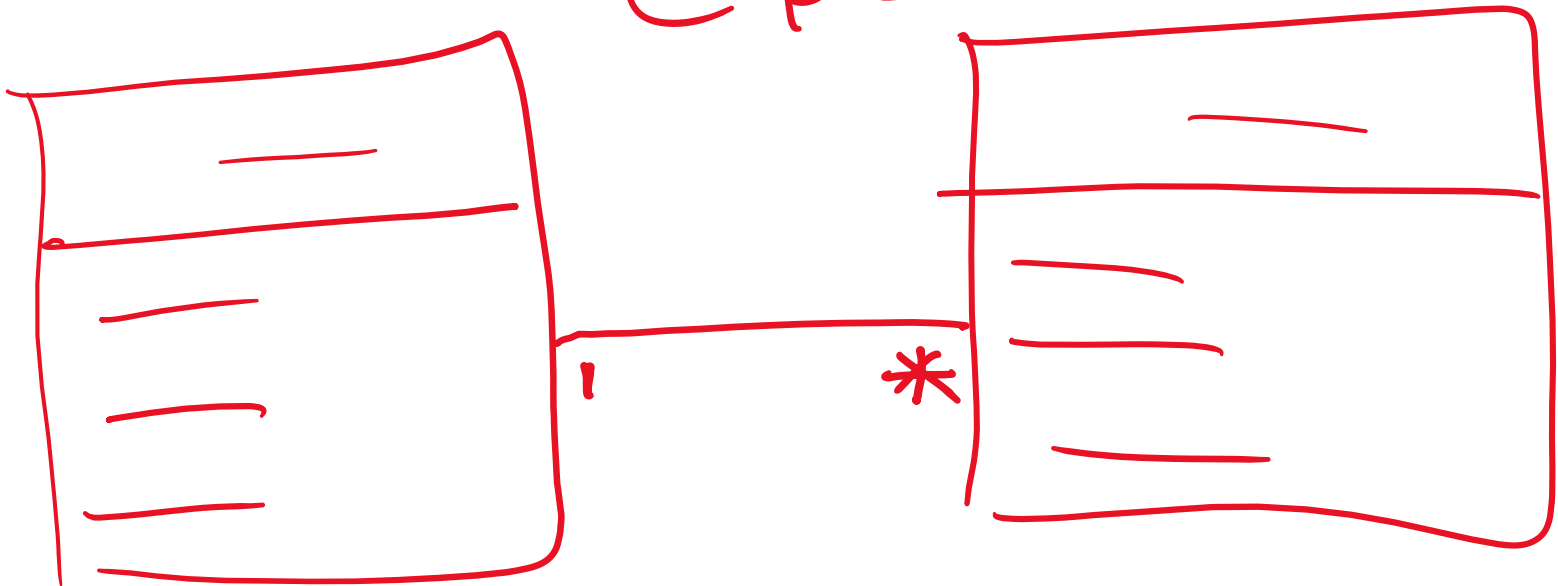




# Software we will use

- Eclipse
- Visual Paradigm for UML modeling

Class Diagram





- **GitHub will be used to deliver the course content**

**<https://github.com/cmeps251f19/cmeps251-content>**

***Check regularly!* for Lecture slides and Demos**

- **Discussion Forum (Q & A)**

**<https://piazza.com/qu.edu.qa/fall2019/cmeps251/>**

# Plagiarism / Cheating

- “Getting an unfair academic advantage”
  - Using other people's work as your own
  - Not doing your assignments yourself
- All the code you submit has to be your own
  - Only exception: Code I have provided or explicitly authorized
    - **NO** code you have found on the web. **NO** sharing with others.
- **Do your homework and project yourself**
  - Do NOT copy from each other or from the Internet - **I will know it!**
  - You can be picked-up randomly to explain your implementation
  - Cheating will be treated very seriously
- Penalties START with a zero on the assignment, failing the course! and other disciplinary actions as per QU policy

# No 'Free Riding' allowed

- 'free riders' (who do not contribute much) => not acceptable and not fair for hardworking students
  - You must actively contribute to your project and do your ultimate best to deliver the best possible results
  - Otherwise you will be asked to do the project alone



# Email Rules

- Avoid emails and instead use the Course Forum to post your questions:

<https://piazza.com/qu.edu.qa/fall2019/cmpps251/>

- When emailing me you must add – **CMPS251** to the beginning of the email title

e.g., CMPS251– Request for a meeting

- For **guidance** on technical issues Post to Piazza or come to office hours NOT by email

# What to do next

- Read Chapters 2, 4 & 5 of the textbook
- Install the required software (see the email I have sent you)
- Register for Piazza (see Piazza email)
- Prepare any questions you might have



**I wish you a fruitful and enjoyable journey!**