CMPS 251
Object Oriented Programming (OOP)

Syllabus and Course Admin

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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

Course outcomes

- 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:

Lab Assignments	20%	[4 out of 5]*
Lab Project	20%	[Delivered in 2 phases of 10% each]
Quizzes	15%	[4 out of 5 quizzes]*
Midterm Exam	20%	[Theory 20%] **Week 7**
Final exam	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
Relations between Classes	8	1
Packages, Enumeration & Exceptions	8	1
Arrays, Lists, Lambdas and Streams	7, 17	2
Review and Midterm (during Week 7)		0.5
Inheritance	9	1
Polymorphism	10	1
Graphical User Interface (GUI)	12, 13	2
Managing data using files	15	1
Exception handling	11	0.5

# The Textbook

- *Java How to Program, by* Deitel & Deitel, 11th Ed., Pearson

(Electronic copy)
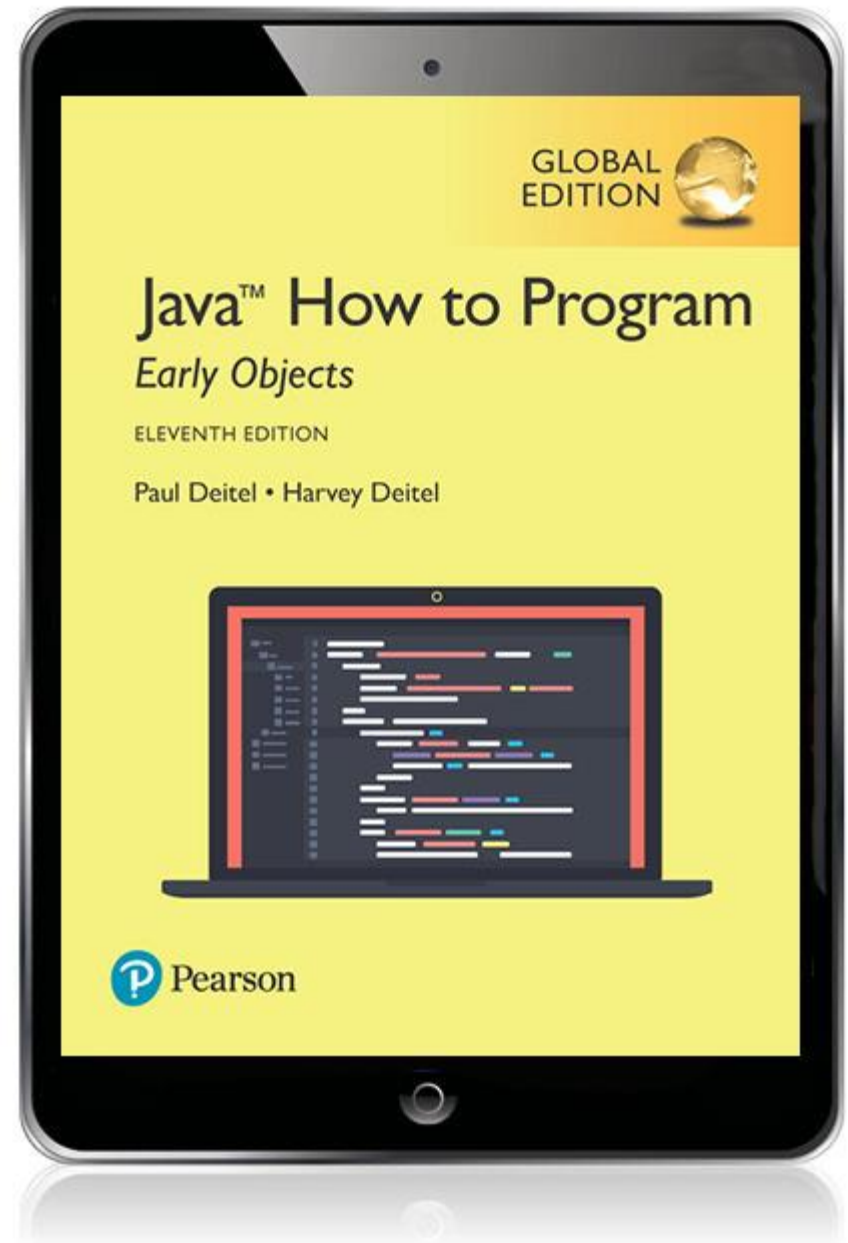
How to succeed in this course….

❑ 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 <u>EARLY</u>): During lectures, Labs & Come to office hours
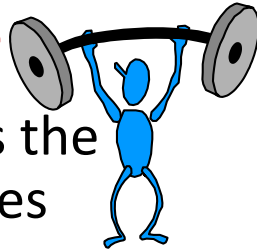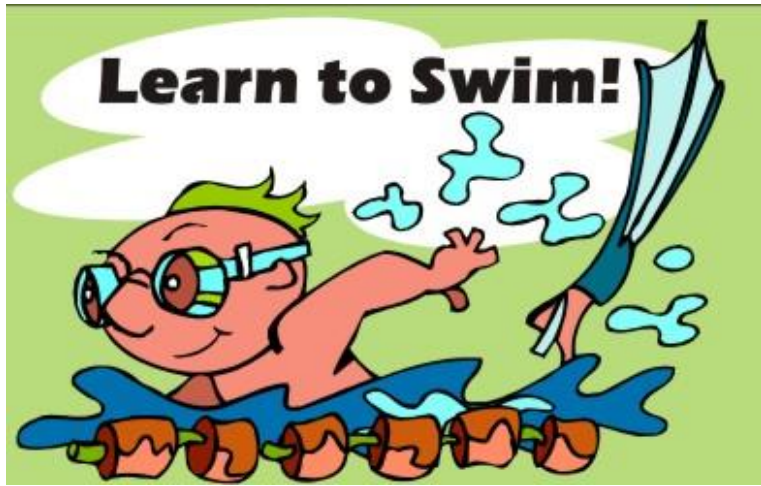
We learn swimming by **swimming** and we learn design and programming by **programming**!

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

https://github.com/cmps251f19/cmps251-content

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

- Eclipse Development tool will be used

- Discussion Forum (Q & A)

https://piazza.com/qu.edu.qa/fall2019/cmps251/

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/cmps251/

- 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!