



SWE 363 Syllabus

# Web Engineering & Development

This course is to provide you with conceptual and practical knowledge, and skills required to develop web and hybrid mobile applications.

## Class details

Days	Sections Time	Venue
MW	01 (8:30 – 9:45)	24-141
	02 (10:00 – 11:15)	
	03 (1:00 – 2:15)	

## Instructor

Dr. Omar Hammad	Office	Phone	Email	Office Hours
	22-329	860-8711	<a href="mailto:omarjh@kfupm.edu.sa">omarjh@kfupm.edu.sa</a>	MW 2:30-4

## How you will be assessed

Participation	Quizzes	Assignments	Mid-term	Project	Final
5%	5%	20%	20%	25%	25%

## How to get the most out of this class

- 💻 Bring your laptop to class (most of the lecture time will be hands-on).
- 📖 Complete the reading assignments before coming to class
- ⌚ Always be on time (for class and assignments deadlines)
- 🔥 Practice, practice, and practice.
- 💡 Pay attention to blackboard & our GitHub page

## **After completing this course, you should be able to:**

1. Identify candidate tools and technologies for developing web applications
2. Recognize the social impact and professional responsibility towards web applications
3. Conceptualize and recognize design principles in building front-end and back-end web applications
4. Build and publish cross-platform, data-driven, and dynamic web and mobile applications
5. Incorporate best practices to boost sustainability, usability, and accessibility of web applications
6. Practice working with professional development tools (e.g., Git, VSCode)

## **Tentative lectures plan**

#	Topic
1	Internet Basics for Web Applications
2	Markup Languages and Static Web Pages
3	Cascading Style Sheets and UI Design
4	Responsive Web design
5	Client-Side Programming
6	Web Engineering
7	Server-Side programming
8	Web Services
9	Web Security

## **What should I refer to?**

- Lectures
- Reading assignment.
- *Fundamentals of Web Development*. Randy Connolly and Ricardo Hoar. 2018.
- Websites that we point to during class
  - .....
  - .....
  - .....
  - .....
  - .....

## Course Policies & Guidelines

- **Blackboard** will be used for communication and interaction, posting and submitting assignments, posting grades, posting sample exams, etc. It is expected that you get the benefit of the discussion board by raising questions or answering questions put by others.
- **Emails:** When sending an email through the university email system, please indicate 231-SWE363-[sec\_number] in the "Subject" field of your email, e.g., 231-SWE363-01: Question about homework 1. Not following properly these guidelines may result in a late or no response to your email.
- **Regular attendance** is a university requirement; hence attendance will be checked at the beginning of each class. Late arrivals will disrupt the class session. Hence, two late attendances (more than 15 minutes) will be considered as one absence. More importantly, you are not allowed to leave the class unless it is an urgent matter.  
**Missing more than 6 lectures will result in a DN grade.** To avoid being considered absent, an official excuse must be shown no later than one week of returning to classes.
- **No makeup** of homework, quizzes, or exams will be given, unless there is a valid excuse.
- **Re-grading policy:** If you have a complaint about any of your grades, discuss it with the instructor **no later than a week of distributing the grades** (except for the final, an office hour will be announced in Blackboard after grading in which complaints can be raised, if any). Only legitimate concerns on grading should be discussed.
- **Academic honesty:** Students are expected to abide by all the university regulations on academic honesty. Cheating will be reported to the Department Chairman and will be severely penalized. Although collaboration and sharing knowledge is highly encouraged, copying others' work without proper citation, either in part or full, is considered plagiarism. Whenever in doubt, review the university guidelines or consult the instructor. Cheating in whatever form will result in an F grade.
- **Courtesy:** Students are expected to be courteous toward the instructor and their classmates throughout the duration of this course. Talking while someone else is speaking will not be tolerated. Furthermore, all cell phones must be turned off during class and exams.