

**SANTA CLARA UNIVERSITY
COMPUTER ENGINEERING DEPARTMENT**

**Wireless & Mobile Networks
COEN 331**

Summer 2021

Dr. Keyvan Moataghed

Office Hours: After class or by appointment

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1. OBJECTIVES:

Extend the knowledge of students in wireless computer networking, such as technologies for broadband Wireless LAN, MAN, WAN, WAP, Zigbee, RFID, Wireless VoIP, SS7, Satellite networks, GSM, GPRS, CDMA, WCDMA, and wireless signaling protocols.

2. PREREQUISITES:

COEN 233 or equivalent

3. Text Books:

802.11 Wireless Networks

Author: Matthew S. Gast

Publisher: O'Reilly

ISBN: 0-596-10052-3

GSM Networks, Protocols, Terminology, And Implementation

Author: Gunnar Heine

Publisher: Artech House

ISBN: 0-89006-471-7

4. Recommended REFERENCE Books:

Wireless and Mobile Networks Architectures

Author: Yi-Bing Lin

Publisher: Wiley

ISBN: 0-471-39492-0

Satellite Communications Systems
Author: Gerard Maral
Publisher: Wiley
ISBN: 0-471-49654-5

5. PROJECT:

Each student should participate in a project about one of the announced topics. The project is focusing on the most recent subjects of wireless networks and consists of **35 pages**. The project weights 30% of the overall grade.

6. TESTS:

Two closed book/notes exams will be given, with each weighted at 35% of the overall score.

7. GRADING:

Grading will be approximately as follows. Any category may be changed by +/- 5% at discretion of the instructor.

Project	30%
Midterm	35%
Final	35%
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	100%

Note 1: In order to receive a PASSING GRADE from this course one must:

- a) Work on a project.
- b) Receive passing grades from written test exams.

Note 2: No makeup exams will be given.