Course Information

Course Code	5670444
Course Section	1
Course Title	INTRODUCTION TO COMPUTER NETWORKS
Course Credit	3
Course ECTS	5.0
Course Catalog Description	Seven layered ISO-OSI model, the medium access sublayer, ALOHA and local area network protocols, I5670E 802.2 and ethernet, the data link layer, error detection and correction, data link protocols, the network layer, routing, congestion control, internetworking, the transport layer, Internet and Internet tools.
Prerequisites	Students must complete one of the following sets to take this course.

Set	Prerequisites
1	5670230

Consent of Dept./Inst.	One of EE441, EE445 or EE447 is strongly recommended.
Schedule	Monday , 12:40 - 14:30, EA208 Wednesday, 12:40 - 13:30, EA208

Instructor Information

Name/Title	Prof.Dr. ŞENAN ECE SCHMİDT
Office Address	A-402
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Office Phone	210 4405
Office Hours	None

Instructional Methods

Class lectures

Recitations

Tentative Weekly Outline

Week	Topic	Relevant Reading	Assignments

Week	Topic	Relevant Reading	Assignments
	Week		
	Topic		
	Week 1		
	Introduction, Layered network architectures, overview of the contemporary Internet		
	Week 2		
	Basic queuing theory		
	Week 3		
	Basic queuing theory		
	Week 4		
	Application Layer		
	Week 5		
	Application Layer		
	Week 6		
	Transport Layer Overview		
	Week 7		
1	Techniques of Reliable Transmission		
	Week 8		
	Techniques of Reliable Transmission		
	Week 9		
	Transport Layer: TCP/UDP		
	Week 10		
	Network Layer		
	Week 11		
	Network Layer		
	Week 12		
	Data Link Layer		
	Week 13		
	Data Link Layer		
	Week 14		
	Physical Layer and end-to-end network functionality		

Course Textbook(s)

- James F. Kurose, Keith W. Ross, **Computer** Networking, 6/e, Addison Wesley, 2014. Available in the reference section of the library.
- A.J. Tanenbaum, **Computer** Networks, Ed.5, Prentice-Hall, 2011. Available in the reference section of the library.

Assessment of Student Learning

Assessment	Dates or deadlines
One midterm exam	
One final exam	
Homework assignments: Written homework assignments, use of Wireshark Protocol Analyzer, programming assignments, use of a simulator software, demos.	
In-class quizzes	

Course Grading

Deliverable	Grade Points
Midterm	30
Final	35
Quizzes. No Quiz Makeup for any excuse. A number of your worst quizzes will be excluded from the sum.	25
Homework Assignments . There will be a separate exam in the last week of classes that evaluates your understanding of these assignments.	10
Total	100

Course Policies

Class Attendance

5% bonus if you attend 100% of the lectures. Proportionally decreased bonus down to 80% attendance.

Final Exam Entrance Conditions

NA Grade:

- You need to satisfy both of the following requirements :
  - Attend at least 2 quizzes OR attend the MIDTERM exam (make-up if you had a valid health excuse on the MIDTERM day).
  - Submit at least one homework

Your grade will be NA otherwise.

Academic Honesty

The METU Honour Code is as follows: *"Every member of METU community adopts the following honour code as one of the core principles of academic life and strives to develop an academic environment where continuous adherence to this code is promoted. The members of the METU community are reliable, responsible and honourable people who embrace only the success and recognition they deserve, and act with integrity in their use, evaluation and presentation of facts, data and documents."*

The homework assignments are to be prepared individually. It is not allowed to prepare the homework as a group. METU honor code is essential. Do not share your homework. **Any kind of involvement in cheating will result in a zero grade for all homeworks, for both givers and receivers.**