

**Principles of Computer
Communications
Fall 2018-2019**

General Info

- **Day and hour:**
Tuesday, 13:30-16:30
- **Classroom:**
EEB 5204
- **Course webpage:**
“ Ninova path: BLG337E CRN: 10985”
- **Instructor:**
Assoc. Prof. Dr. Berk CANBERK
EEB 2212
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- **Teaching Assistant:**
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Evaluation Criteria

- **2 Midterms:** 1.Midterm=%20,
2.Midterm= %20
 - **4 Quizes:** 4 x %5 = %20
(Informed in advance, Don't Worry!)
 - **Final:** %40
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- **VF Condition:**
 - 1- 20/60 in-term performance:**
5/20 in Quizes.15/40 in Midterms
 - 2- Lecture Attendance: %70**
 - 3- Quiz Attendance: 3/4**

Syllabus

Week	Date	Subject
1	18 September 2018	Introduction, History, Shannon model, Protocol Layers.
2	25 September 2018	Physical Layering Issues, Wired PHY Technologies.
3	02 October 2018	Modulation Techniques, Electromagnetic Spectrum. Q1
4	09 October 2018	PHY for Wireless Media.
5	16 October 2018	Data Link Layer Principles. Q2
6	23 October 2018	Data Link Layer Principles-2, Error Detection, LAN.
7	30 October 2018	1. Midterm
	06 November 2018	TERM BREAK
8	13 November 2018	Bridging in Wired and Wireless Topologies, Spanning Tree Bridges, Switches, Virtual LANs.
9	20 November 2018	Medium Access Control (MAC) Taxonomy and Protocols. Q3
10	27 November 2018	Sliding Window Protocols, Congestion and Flow Controls.
11	04 December 2018	Wireless LAN, 3G-4G Cellular Network Topologies. Q4
12	11 December 2018	Cell Planning, Standardization, Current Wired and Wireless Computer Communications.
13	18 December 2018	2.Midterm
14	25 December 2018	Next Generation Networking.

Books and Other Sources

Principal Book:

- *Computer Networking, A Top-Down Approach Featuring the Internet*, James F.Kurose, Keith W.Ross, Pearson-Addison Wesley, 6th Edition, 2012.

Other helpful sources:

- *Data and Computer Communications*, William Stallings, Pearson-Prentice Hall, 9th Edition, 2010.
- *TCP/IP Protocol Suite*, Behrouz A. Forouzan, McGraw Hill, 4th Edition, 2010.
- *Computer Networks and Internets*, Douglas E. Comer, Pearson Education, 5th Edition, 2008.
- *Computer Networks*, Andrew Tanenbaum, Pearson, 5th Edition, 2010.
- Lecture Slides
- <http://scholar.google.com>
- <http://ieeexplore.ieee.org/>
- “Google!