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### CENG460 COMMUNICATION NETWORKS

Term – Spring 2018 (201801)

#### Instructor

Dr. Lin Cai  
Phone: 8691  
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#### Office Hours

Days: Mon/Thur or by appointment  
Time: 14:30-16:00  
Location: EOW317

#### Course Objectives

- This course will introduce the fundamental concepts in computer communications networks, to help students understand the principles and practice of designing, building, and operating computer networks, particularly the Internet.

#### Learning Outcomes

- Understand the Internet protocol stack, the main functionalities of each layer, and the design principles.

#### Syllabus

- Network overview, PHY layer technologies, link error control, resource management and medium access control, network routing algorithms and protocols, transport layer flow control, error control, and congestion control, Internet applications

A-Section(s): A01 / CRN 20424

Days: MR

Time: 13:00-14:20

Location: DTM A110

Labs: B01/B02 Mon 16:00-18:50, B03/B04 Thu 15:30-18:20, B05 Wed 15:30-18:20

TA: TBD

#### Required Text

Title: Computer Networks  
Author: A. Tanenbaum and D. Wetherall  
Publisher: Prentice Hall  
Year: 2010

#### Optional Text

Title: Computer Networking: A Top-Down Approach  
Author: J. Kurose and K. Ross  
Publisher: Addison Wesley  
Year: 2012

#### Assessment:

Assignments: 10%  
Labs 20%  
Mid-term 30%

Due Dates: Jan. 25/ Feb. 8/ Mar. 1/ Mar. 26/ Apr. 5  
Date: Mar. 5

**Note:**

The final grade obtained from the above marking scheme for the purpose of GPA calculation will be based on the percentage-to-grade point conversion table as listed in the current Undergraduate Calendar.

<https://web.uvic.ca/calendar2018-01/undergrad/info/regulations/grading.html>

**There will be no supplemental examination for this course.**

**Note to students:** Students who have issues with the conduct of the course should discuss them with the instructor first. If these discussions do not resolve the issue, then students should feel free to contact the Chair of the Department by email or the Chair's Assistant to set up an appointment.

**Accommodation of Religious Observance:**

<https://web.uvic.ca/calendar2018-01/undergrad/info/regulations/religious-observanc.html>

**Policy on Inclusivity and Diversity:**

<https://web.uvic.ca/calendar2018-01/general/policies.html>

**Standards of Professional Behaviour:** You are advised to read the Faculty of Engineering document Standards for Professional Behaviour, which contains important information regarding conduct in courses, labs, and in the general use of facilities.

<https://www.uvic.ca/engineering/assets/docs/professional-behaviour.pdf>

Cheating, plagiarism and other forms of academic fraud are taken very seriously by both the University and the Department. You should consult the entry in the current Undergraduate Calendar for the UVic policy on academic integrity.

<https://web.uvic.ca/calendar2018-01/undergrad/info/regulations/academic-integrity.html>

**Equality:** This course aims to provide equal opportunities and access for all students to enjoy the benefits and privileges of the class and its curriculum and to meet the syllabus requirements. Reasonable and appropriate accommodation will be made available to students with documented disabilities (physical, mental, learning) in order to give them the opportunity to successfully meet the essential requirements of the course. The accommodation will not alter academic standards or learning outcomes, although the student may be allowed to demonstrate knowledge and skills in a different way. It is not necessary for you to reveal your disability and/or confidential medical information to the course instructor. If you believe that you may require accommodation, the course instructor can provide you with information about confidential resources on campus that can assist you in arranging for appropriate accommodation. Alternatively, you may want to contact the Resource Centre for Students with a Disability located in the Campus Services Building.

The University of Victoria is committed to promoting, providing, and protecting a positive, and supportive and safe learning and working environment for all its members.

**Course Lecture Notes:** Unless otherwise noted, all course materials supplied to students in this course have been prepared by the instructor and are intended for use in this course only. These materials are NOT to be re-circulated digitally, whether by email or by uploading or copying to websites, or to others not enrolled in this course. Violation of this policy may in some cases constitute a breach of academic integrity as defined in the UVic Calendar.