# Faculty of Engineering

## COURSE OUTLINE

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## CENG460 COMMUNICATION NETWORKS

**Term – Spring 2017** (201701)


**Instructor**

Dr. Lin Cai
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**Office Hours**

Days: Mon/Thur or by appointment
Time: 13:00-14:20
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 20412; A02 / CRN 20413
Days: Mon/Thur
Time: 11:30-12:50
Location: CLE C112

**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:**

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|---|---|---|
| Assignments: | 10% | Due Dates: Jan. 26/ Feb. 9/ Mar. 2/ Mar. 27/ Apr. 3 |
| Labs | 20% | |
| Mid-term | 30% | Date: Mar. 6 |
| Final Exam | 40% | |

**Note:** Failure to pass the final exam will result in a failing grade for the course.

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.

**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 Secretary to set up an appointment.

**Accommodation of Religious Observance:** http://web.uvic.ca/calendar2017-01/general/policies.html

**Policy on Inclusivity and Diversity:** http://web.uvic.ca/calendar2017-01/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.
http://web.uvic.ca/calendar2017-01/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.