COURSE OUTLINE

ECE 519B Selected Topics in Computer Communication
– Broadband and Wireless Networks
Term – SPRING 2020 (202001)

Instructor      Office Hours
Dr. Lin Cai       Days: Mon/Thu
Phone:(250) 721- 8691      Time: 14:30-16:00
E-mail: cai@ece.uvic.ca      Location: EOW317

Course Objectives
- The goal of the course is to introduce the fundamental concepts, tools and methodologies in networking research, and how to apply them to solve practical and emerging problems.

Learning Outcomes
- Multimedia traffic modeling, wireless channel modeling, radio resource management, mobility management, and end-to-end flow and congestion control.

Syllabus
- This course focuses on resource management and protocol design for transporting data and multimedia traffic in broadband and wireless communication networks. Topics include multimedia traffic modeling, wireless channel modeling, radio resource management, mobility management, and end-to-end flow and congestion control. The goal of the course is to introduce the fundamental concepts, tools and methodologies in networking research, and how to apply them to solve practical and emerging problems. Students are encouraged to investigate novel ideas in the area via course projects.

A-Section(s):  A01 / A02, CRN 20939 / 20940
Days:  Mon/Thu
Time:  10:00-11:20
Location: HHB116

Optional Text:
Title: Multimedia services in wireless Internet: Modeling and analysis
Author: Lin Cai, Xuemin Shen and Jon W. Mark
Publisher: Wiley
Year: 2009

Reference:

Assessment:
Assignments:  20%        Due Dates: Jan. 30, Feb. 24, Mar. 12, Mar. 23
Presentation:  20%        Quiz: 15%        Date: April 2, 2020
Project:  45%
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 Graduate Calendar.

https://web.uvic.ca/calendar2020-01/grad/academic-regulations/grading.html

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.

Course Withdrawal Deadlines:
- January 19: Withdrawal with 100% reduction of tuition fees
- February 9: Withdrawal with 50% reduction of tuition fees
- February 29: Last day for withdrawal (no fees returned)

Accommodation of Religious Observance:
https://web.uvic.ca/calendar2020-01/grad/registration/Registration.1.17.html#

Policy on Inclusivity and Diversity:
https://web.uvic.ca/calendar2020-01/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.
http://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 Graduate Calendar for the UVic policy on academic integrity.

https://web.uvic.ca/calendar2020-01/grad/academic-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 Centre for Accessible Learning located in the Campus Services Building. https://www.uvic.ca/services/cal. 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.

**Sexualized Violence Prevention and Response at UVic:**
UVic takes sexualized violence seriously, and has raised the bar for what is considered acceptable behaviour. We encourage students to learn more about how the university defines sexualized violence and its overall approach by visiting [www.uvic.ca/svp](http://www.uvic.ca/svp). If you or someone you know has been impacted by sexualized violence and needs information, advice, and/or support, please contact the sexualized violence resource office in Equity and Human Rights (EQHR). Whether or not you have been directly impacted, if you want to take part in the important prevention work taking place on campus, you can also reach out:

- **Where:** Sexualized violence resource office in EQHR; Sedgewick C119
- **Phone:** 250.721.8021
- **Email:**svpcoordinator@uvic.ca
- **Web:** [www.uvic.ca/svp](http://www.uvic.ca/svp)

**Office of the Ombudsperson:**
The [Office of the Ombudsperson](https://uvicombudsperson.ca/) is an independent and impartial resource to assist with the fair resolution of student issues. A confidential consultation can help you understand your rights and responsibilities. The Ombudsperson can also clarify information, help navigate procedures, assist with problem-solving, facilitate communication, provide feedback on an appeal, investigate and make recommendations. Phone: 250-721-8357; Email: ombuddy@uvic.ca; Web: [https://uvicombudsperson.ca/](https://uvicombudsperson.ca/)