Faculty of Engineering

COURSE OUTLINE

ECE 242 – Discrete Structures in Engineering
Term – Summer 2019 (201905)

Instructor
Dr. Daler N. Rakhmatov
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Office Hours
Days: T
Time: 11:30 am – 1:00 pm
Location: EOW 327

Course Objectives
- Students will learn about: 1) basic discrete algebraic structures and their applications in electrical and computer engineering, and 2) basic discrete optimization algorithms and their applications in electrical and computer engineering.

Learning Outcomes
- Students will be able to: 1) describe and use basic structures to formulate engineering problems, 2) analyze linear transfer-function/state-variable and graph models arising in related engineering problems, 3) solve linear recurrences and linear programs arising in related engineering problems, 4) apply basic graph algorithms and branch-and-bound search to solve related engineering problems.

Syllabus (tentative hours)
- Survey of basic discrete structures (9);
- Applications of basic discrete structures in electrical and computer engineering (9);
- Survey of basic algorithms acting on discrete structures (9);
- Applications of basic algorithms in electrical and computer engineering (9).

A-Section(s): A01 / CRN 30258
Days: TWF
Time: 9:30 am - 10:20 am
Location: David Strong Building C122

Required Text
Title: N/A
Author: N/A
Publisher: N/A
Year: N/A

Optional Text
Title: N/A
Author: N/A
Publisher: N/A
Year: N/A

References: Course website https://www.ece.uvic.ca/~daler/courses/ece242

Assessment:
Assignments: 30% Due Dates: TBA
Mid-term 20% Date: June 28 (tentative)
Final Exam 50%
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/calendar2019-05/undergrad/info/regulations/grading.html

Assignment of E grade and supplemental examination for this course will be at the discretion of the Course Instructor. The rules for supplemental examinations can be found in the current Undergraduate Calendar.

https://web.uvic.ca/calendar2019-05/undergrad/info/regulations/exams.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 Assistant to set up an appointment.

Accommodation of Religious Observance:
https://web.uvic.ca/calendar2019-05/undergrad/info/regulations/religious-observanc.html

Policy on Inclusivity and Diversity:
https://web.uvic.ca/calendar2019-05/undergrad/info/regulations/academic-integrity.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

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.

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 Materials: 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)