ECE549A – Selected Topics in Electronics: Materials for Enhanced Energy Technologies

Term – Summer 2018 (201805)

Instructor
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Office Hours
Days: by appointment
Time: 
Location: 

Course Objectives
- To obtain broad training in materials for enhanced energy technologies.

Learning Outcomes
- The primary learning outcome is to obtain a broad perspective of materials in relation to energy technologies, recognizing common elements for greater employability in multiple evolving sectors; not focusing on a single energy area.
- Secondary learning outcomes relate to knowledge and know-how on state-of-the-art research equipment, professional skills, and industrial perspective on R&D.

Syllabus
The following online sessions are scheduled for answering questions. Please review online videos before attending sessions: https://onlineacademiccommunity.uvic.ca/meet/meet-graduate-courses/

May 9 - Intro Class (Gordon)  
May 16 - Tiedje (Photovoltaics)  
May 23 - Gordon (Light-matter at nanoscale)  
May 30 - Sinton (Global Energy/Micro-Nanofluidics)  
Jun 6 - Sargent (Nano-opto-electronics)  
Jun 13 - Brolo (Electrochemistry and Batteries)  
Jun 20 - Goldthorpe (Nanomaterials)  
Jun 27 - Djilali (Transport)  
Jul 4 - Bahrami (Energy Conversion & Heat Transfer)  
Jul 11 - Harrington (Electrified Interfaces and Energy Devices)*  
Jul 18 - Humphrey (Nano-tools)  
Jul 25 - Sirk (IP)  
Aug 1 - Fagan (Professional Development)  

To join the online session, use Bluejeans: https://bluejeans.com/520370071/ or contact meet@uvic.ca for other methods.

* July 11, 12:30pm-3:20pm: There is no online video for Electrified Interfaces and Energy Devices. Please join the class at CLE B109 or via https://bluejeans.com/520370071/.

A-Section(s): A01 / CRN 30313
Days: Wednesdays  
Time: 12:30-13:20
Location: CLE B019

*** Note: on Wednesdays, online sessions will occur in CLE B019, not usual classroom.
Assessment:

Assignments:

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<td>Light-matter at nanoscale</td>
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Due Dates: Friday at 5 pm PST directly after online session.

Email assignments to meet@uvic.ca

Late assignments will have 50% reduced marks.

Any cheating/copying will result in 0% for that assignment.

Note:
There is no final exam in this 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 Graduate Calendar. [Link](https://web.uvic.ca/calendar2018-05/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 Assistant to set up an appointment.

Accommodation of Religious Observance: [Link](https://web.uvic.ca/calendar2018-05/grad/registration/Registration.1.16.html)

Policy on Inclusivity and Diversity: [Link](https://web.uvic.ca/calendar2018-05/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. [Link](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. [Link](https://web.uvic.ca/calendar2018-05/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 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.