Department of Electrical and Computer Engineering

COURSE OUTLINE

ELEC 420 Nanotechnology
Spring 2018 (201801)

Instructor
Dr. Chris Papadopoulos
Phone: 721-8619
E-mail: papadop@ece.uvic.ca

Office Hours
Day: Tuesday Time: 2:30PM – 5:00PM
(or by appointment)
Location: EOW 429

Lectures
Sections: A01/CRN 21115
Days: TWF
Time: 9:30AM – 10:20AM
Location: ELL 161

Website
http://coursespaces.uvic.ca/ (NetLink ID required)

Required Text
Readings will be provided.

Reference texts
Nanoelectronics and Information Technology,

Nanofabrication: Principles and Applications,

Introduction to Nanoscience, Lindsay, Oxford (2010).

Topics
I Nanoscale Imaging and Fabrication
II Properties of Nanostructures

III Nanoelectronics
IV Nanophotonics
V Bionanotechnology

Assessment
Tests 15; 20% (Take home, due Feb. 20; Mar. 20)
Term Paper 40% (Due April 6)
Final Exam 25%

Submit all work directly to instructor (in-class or office by 5 PM). Term papers will not be accepted after the due date.
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: 
http://web.uvic.ca/calendar2018-01/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: 
http://web.uvic.ca/calendar2018-01/undergrad/info/regulations/exams.html

**Course Objectives and Learning Outcomes**

Understand properties of nanoscale materials and tools used to create/characterize them. Examine and apply this knowledge to applications based on nanostructures.

**Syllabus**


**Accommodation of Religious Observance**

http://web.uvic.ca/calendar2018-01/undergrad/info/regulations/religious-observanc.html

**Policy on Inclusivity and Diversity**

http://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: 
http://www.uvic.ca/engineering/assets/docs/professional-behaviour.pdf

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, students should feel free to contact the Chair of the Department by email or the Chair's Secretary to set up an appointment.

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/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, which could in some cases constitute a breach of academic integrity as defined in the UVic Calendar.