**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 21108, A02/CRN 21109  
Days: TWF  
Time: 9:30AM – 10:20AM  
Location: ECS 130

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

**Required Text**  
Readings will be provided.

**References**  


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. 18; Mar. 18)

Term Paper  
40% (Due April 4)

Final Exam  
25%

Submit all work directly to instructor (in-class or office by 5PM). Term papers will not be accepted after the due date.
The final grade obtained from the above marking scheme will be based on the following percentage-to-grade point conversion:

<table>
<thead>
<tr>
<th>Passing Grades</th>
<th>Grade Point Value</th>
<th>Percentage for Instructor Use Only</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>9</td>
<td>90 – 100</td>
</tr>
<tr>
<td>A</td>
<td>8</td>
<td>85 – 89</td>
</tr>
<tr>
<td>A-</td>
<td>7</td>
<td>80 – 84</td>
</tr>
<tr>
<td>B+</td>
<td>6</td>
<td>77 – 79</td>
</tr>
<tr>
<td>B</td>
<td>5</td>
<td>73 – 76</td>
</tr>
<tr>
<td>B-</td>
<td>4</td>
<td>70 – 72</td>
</tr>
<tr>
<td>C+</td>
<td>3</td>
<td>65 – 69</td>
</tr>
<tr>
<td>C</td>
<td>2</td>
<td>60 – 64</td>
</tr>
<tr>
<td>D</td>
<td>1</td>
<td>50 – 59</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Failing Grades</th>
<th>Grade Point Value</th>
<th>Percentage for Instructor Use Only</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>0</td>
<td>35 – 49</td>
<td>Fail, conditional supplemental exam. (For undergraduate courses only)*</td>
</tr>
<tr>
<td>F</td>
<td>0</td>
<td>0 – 49</td>
<td>Fail, no supplemental.</td>
</tr>
<tr>
<td>N</td>
<td>0</td>
<td>0 – 49</td>
<td>Did not write examination, Lab or otherwise complete course requirements by the end of term or session; no supplemental exam.</td>
</tr>
</tbody>
</table>

*The rules for supplemental examinations are found on pages 80 of the current 2013/14 Undergraduate Calendar.

<table>
<thead>
<tr>
<th>Term in which E Grade was obtained:</th>
<th>Application Deadline for Supplemental Exam</th>
<th>Supplemental Exam Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>First term of Winter Session (Sept – Dec)</td>
<td>February 28 in the following term</td>
<td>First week of following May</td>
</tr>
<tr>
<td>Second term of Winter Session (Jan – Apr)</td>
<td>June 30 in the following term</td>
<td>First week of following September</td>
</tr>
<tr>
<td>Summer Session (May – Aug)</td>
<td>October 31 in the following term</td>
<td>First week of following January</td>
</tr>
</tbody>
</table>

Deferred exams will normally be written at the start of the student’s next academic term; i.e., approximately 4 months following the deferral of the exam.

**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**


**Guidelines on Religious Observances**

See [http://web.uvic.ca/calendar2013/GI/GUPo.html](http://web.uvic.ca/calendar2013/GI/GUPo.html)

**Commitment to Inclusivity and Diversity**

See [http://web.uvic.ca/calendar2013/GI/GUPo.html](http://web.uvic.ca/calendar2013/GI/GUPo.html)

**Standards of Professional Behaviour**

You are advised to read the Faculty of Engineering document Standards for Professional Behaviour at [http://www.uvic.ca/engineering/current/undergrad/index.php#section0-25](http://www.uvic.ca/engineering/current/undergrad/index.php#section0-25) which contains important information regarding conduct in courses, labs, and in the general use of facilities.

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 ECE Chair by email or the ECE 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 [http://web.uvic.ca/calendar2013/FACS/UnIn/UARe/PoAcI.html](http://web.uvic.ca/calendar2013/FACS/UnIn/UARe/PoAcI.html) for the UVic policy on academic integrity. Plagiarism detection software may be used to aid the instructor and/or TA's in the review and grading of some or all of the work you submit.