



UNIVERSITY OF  
CALGARY

NANOSCIENCE PROGRAM  
COURSE SYLLABUS FALL 2014

**Course:** NANS 599, *Special Problems in Nanoscience and Nanotechnology*

SECTION	TIME	DAYS	ROOM	INSTRUCTORS	OFFICE	PHONE	EMAIL (@ucalgary.ca)	OFFICE HOURS
L01	18:00 –19:15	MW	SA 107	Trudel, S.	SB 417	210-7078	<a href="mailto:trudels@ucalgary.ca">trudels</a>	By appointment
SECTION	TIME	DAYS	ROOM	TEACHING ASSISTANT	OFFICE	PHONE	EMAIL (@ucalgary.ca)	OFFICE HOURS
L01	--	--	--	Chris Sarsons	--	--	chris.sarsons	By appointment

**Textbook:** no textbook required

**Topics covered:**

Teaching will be done through student-prepared oral presentations and ensuing discussions of scientific literature. Topics relevant to contemporary experimental, theoretical, and conceptual developments related to nanoscience and nanotechnology, in the fields of materials and life sciences, chemistry, physics, engineering, and instrumentation, will be covered.

General public presentation skills and good practices of presentation and the use of PowerPoint will also be discussed.

Students will have to prepare 4 presentations throughout the class (all times are tentative – a final schedule will be presented at the beginning of the class):

- A short (10 min. + 5 min. questions) oral presentation highlighting a scientific technique / method relevant to nano-science/-technology
- A long (20 min. + 5 min. questions) oral presentation providing a review of an area of nano-science/-technology
- A long (20 min. + 5 min. questions) oral presentation highlighting a peer-reviewed scientific publication relevant to nano-science/-technology
- A poster presentation highlighting a peer-reviewed scientific publication relevant to nano-

science/-technology

In addition, five exercises putting in practice material taught *w.r.t.* using advanced animations in PowerPoint, and doing graphic artwork in Google SketchUp, vulgarization of science, etc. will be done.

**LABORATORY EXPERIMENTS:** This class does not have a lab component

Department Approval

Approved by Department Head

Date

August 27, 2014