



UNIVERSITY OF CALGARY  
FACULTY OF SCIENCE  
NANOSCIENCE PROGRAM  
COURSE OUTLINE  
FALL 2017

1. **Course:** Nanoscience 301, Introduction to Nanoscience and Nanotechnology

Lecture Sections:

L01: TuTh 6:00 pm - 7:15 pm, SA 104

| Instructor         | Office    | Tel. No.       | e-mail address   | Office hours   |
|--------------------|-----------|----------------|--|----------------|
| Dr. Max Anikovskiy | EEEL 237A | (403) 220-3115 | <a href="mailto:m.anikovskiy@ucalgary.ca">m.anikovskiy@ucalgary.ca</a> | By appointment |
| Dr. Simon Trudel   | SB 417    | (403) 210-7078 | <a href="mailto:trudels@ucalgary.ca">trudels@ucalgary.ca</a>           | By appointment |
| Dr. Elmar Prenner  | BI 145A   | (403) 220-7632 | <a href="mailto:eprenner@ucalgary.ca">eprenner@ucalgary.ca</a>         | By appointment |

Desire 2 Learn (D2L) Nanoscience 301

Nanoscience Program Office: SA 229J, Tel. No.: (403) 220-6049, e-mail address: [nanosci@ucalgary.ca](mailto:nanosci@ucalgary.ca)

To avoid IT problems, it is recommended that the students use their U of C account for all course correspondence.

2. **Prerequisites:** Completion of 18 units (3.0 full-course equivalents) in courses offered by the Faculty of Science (<http://www.ucalgary.ca/pubs/calendar/current/nanoscience.html>)

3. **Grading:** The University policy on grading and related matters is described sections [F.1](#) and [F.2](#) of the online University Calendar. In determining the overall grade in the course the following weights will be used:

|                          |   |
|--------------------------|---|
| Midterm Test             | 25% (75 min; Oct. 31, 2017; in class)           |
| Quizzes and assignments: | 20%   |
| Term paper:              | 15% (group project)                             |
| Participation:           | 5%  |
| Final Examination:       | 35% (120 min; to be scheduled by the Registrar) |

Each piece of work (midterm test, quiz, term paper, or final examination examination) submitted by the student will be assigned a percentage score. The student's average percentage score for the various components listed above will be combined with the indicated weights to produce an overall percentage for the course, which will be used to determine the course letter grade. The conversion between course percentage and letter grade is given below:

| A+                             | A       | A-     | B+     | B      | B-     |
|--------------------------------|---------|--------|--------|--------|--------|
| > 90% in <i>all</i> components | 86-100% | 82-85% | 78-81% | 74-77% | 70-73% |

| C+     | C      | C-     | D+     | D      | F     |
|--------|--------|--------|--------|--------|-------|
| 66-69% | 62-65% | 58-61% | 54-57% | 50-53% | < 50% |

4. **Missed Components of Term Work:** The regulations of the Faculty of Science pertaining to this matter are found in the Faculty of Science area of the Calendar in [Section 3.6](#). It is the student's responsibility to familiarize himself/herself with these regulations. See also [Section E.6](#) of the University Calendar

There is no deferred Midterm test examination. In the event that a student misses the midterm or any course work due to illness then an official medical note will be required. Absences must be reported within 48 hrs. If a student misses the midterm for other reasons, then analogous documentation will be required. The course coordinator will need to see the original documentation (not electronic copy) for review / decision and keep it (or a copy) for their records. The documentation must be provided to the course coordinator within 15 days of the date of the midterm in order for an excused absence to be considered. If an excused absence is approved, then the percentage weight of a legitimately missed midterm examination will be transferred to the final examination (see [Section E.3](#) of the University Calendar).

5. **Scheduled out-of-class activities:** No class activities will be held outside of scheduled class hours

- 6. Course Materials:** Some course materials can be downloaded from D2L Nanoscience 301  
No textbook is required for this course.
- 7. Examination Policy:** Examinations will be closed book. Non-programmable calculators during examinations will be allowed:  
Calculator Feature: the capability to perform calculations electronically on user-entered numerical data without the capability to employ pre-stored or user-entered formulae. This feature is provided by the most elementary calculator, permits the elementary arithmetic operations (addition, subtraction, multiplication and division) and possibly the trigonometric, hyperbolic, exponential and logarithmic operations.  
Students should also read the Calendar, [Section G](#), on Examinations.
- 8. Approved Mandatory and Optional Course Supplemental Fees:** There are no supplemental fees associated with this course.
- 9. Writing across the curriculum statement:** In this course, the quality of the student's writing in all submitted work will be a factor in the evaluation of this work. See also [Section E.2](#) of the University Calendar.
- 10. Human studies statement:** No human studies are conducted in this course.
- 11. Reappraisal of Grades:** Students should be aware that the grade being reappraised may be raised, lowered or remain the same. See Section I.3 of the University Calendar.
- (a) Term work: A student who feels that a piece of graded term work (term paper, essay, test, etc.) has been unfairly graded, may have the work re-graded. The student shall discuss the work with the Instructor within 15 days of either being notified about the mark, or of the item's return to the class. If not satisfied, the student shall immediately submit the Reappraisal of Term work Grade form to the Associate Head of Chemistry, Dr. Farideh Jalilehvand (ahugchem@ucalgary.ca), who will arrange for a reassessment of the work if, and only if, the student's argument is valid. Note: Students should attempt to present their rational as effectively and as fully as possible. Mere dissatisfaction with a decision is not sufficient grounds for the appeal of a grade, or other academic decision. See sections I.1 and I.2 of the University Calendar.
- (b) Final Exam: A student wishing a reappraisal of the final grade should first attempt to review the final assessment with the department offering the course. If not satisfied, the student shall submit the request to the Enrolment Services. See [Section I.3](#) of the University Calendar.
- 12. OTHER IMPORTANT INFORMATION FOR STUDENTS:**
- (a) **Misconduct:** Academic misconduct (cheating, plagiarism, or any other form) is a very serious offence that will be dealt with rigorously in all cases. A single offence may lead to disciplinary probation or suspension or expulsion. The Faculty of Science follows a zero tolerance policy regarding dishonesty. Please read the sections of the University Calendar under [Section K](#) on Student Misconduct to inform yourself of definitions, processes and penalties. Examples of academic misconduct include but are not limited to: submitting or presenting work as if it were the student's own work when it is not; submitting or presenting work in one course which has also been submitted in another course without the instructor's knowledge; borrowing experimental values from others without the instructor's approval; falsification/ fabrication of experimental values in a lab report; copying materials from written or electronic resources; non-authorized recording of lectures.
- (b) **Assembly Points:** In case of emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on [assembly points](#).
- (c) **Academic Accommodation Policy:** Students needing an Accommodation because of a Disability or medical condition should contact Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities available at [http://www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities\\_0.pdf](http://www.ucalgary.ca/policies/files/policies/procedure-for-accommodations-for-students-with-disabilities_0.pdf). Students needing an Accommodation in relation to their coursework or to fulfill requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, preferably in writing, to their Instructor/ Course Coordinator. Religious accommodation requests relating to class, test or exam scheduling or absences must be submitted no later than **14 days** prior to the date in question: <http://www.ucalgary.ca/pubs/calendar/current/e-4.html>
- (d) **Safewalk:** Campus Security will escort individuals day or night (<http://www.ucalgary.ca/security/safewalk/>). Call (403) 220-5333 for assistance. Use any campus phone, emergency phone or the yellow phones located at most parking lot pay booths.

- (e) **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIPP). As one consequence, students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. For more information see also <http://www.ucalgary.ca/secretariat/privacy>.
- (f) **Student Union Information:** VP Academic Phone: (403) 220-3911 email: [suypaca@ucalgary.ca](mailto:suypaca@ucalgary.ca)  
SU Faculty Rep. Phone: (403) 220-3913 e-mail: [science1@su.ucalgary.ca](mailto:science1@su.ucalgary.ca), [science2@su.ucalgary.ca](mailto:science2@su.ucalgary.ca) and [science3@su.ucalgary.ca](mailto:science3@su.ucalgary.ca); Student Ombuds Office: (403) 220-6420 e-mail [ombuds@ucalgary.ca](mailto:ombuds@ucalgary.ca)  
<http://ucalgary.ca/provost/students/ombuds>
- (g) **Internet and Electronic Device Information:** You can assume that in all classes that you attend, your cell phone should be turned off unless instructed otherwise. Also, communication with other individuals, via laptop computers, Blackberries or other devices connectable to the Internet is not allowed in class time unless specifically permitted by the instructor. If you violate this policy you may be asked to leave the classroom. Repeated abuse may result in a charge of misconduct.
- (h) **U.S.R.I.:** At the University of Calgary, feedback provided by students through the Universal Student Ratings of Instruction (USRI) survey provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses ([www.ucalgary.ca/usri](http://www.ucalgary.ca/usri)). Your responses make a difference - please participate in USRI Surveys.

Program Director's Approval: Approved by Department Head

Date: August 23, 2017