



UNIVERSITY OF CALGARY

DEPARTMENT OF MATHEMATICS AND STATISTICS COURSE OUTLINE

Course: MATH 661.01 L01 - (Winter 2017) - Convex Optimization

Dates: January 09, 2017 – April 12, 2017

1.

Lecture	Day	Time	Location	Instructor	Office	Phone	Email	Office Hours
01	MWF	12:00-12:50	MS 431	Yuriy Zinchenko	MS 524	220-4044	yzinchen@ucalgary.ca	TBD

Desire 2 Learn (D2L) course name: **MATH 661.01 L01 - (Winter 2017) - Convex Optimization**

Department of Mathematics and Statistics – MS476 Telephone number – 403-220-5210

2. **Prerequisites:** working knowledge of multivariate calculus (e.g., MATH349) and matrix linear algebra (e.g., MATH311), some previous exposure to optimization methods (e.g., linear programming) is desirable but not required (see Section 3.5C of Faculty of Science <http://www.ucalgary.ca/pubs/calendar/current/sc-3-5.html>)

Antirequisite: NA

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:

Assignments [10] 50 %

Final Exam 50 % (To be scheduled by the Registrar)

Each piece of work (assignment, quizzes or final 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 [bearing in mind that grade of D+ or below will result if the student does not pass the final examination]. The conversion between course percentage and letter grade is given below:

Letter Grade Conversions	
Letter Grade	Cut Points
A+	95
A	89
A-	86
B+	83
B	76
B-	73
C+	70
C	63
C-	60
D+	55
D	50
F	<50

A passing grade (>50%) in the Final Exam is essential for an overall grade of C- or better.

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. In the unlikely event of a health problem, the [Physician/Counsellor Statement Form](#) must be accompanied by either "[Application for Deferred Final Examinations](#)" or an "[Application for Deferment of Term Work](#)" in order to gain approval for such request. For all other missed term work such as quizzes, assignments or midterms, the [Physician/Counsellor Form](#) must be handed directly to your course instructor for approval.
5. **Course Materials:** *Convex Optimization* by Boyd and Vandenberghe, accessible free online at <http://web.stanford.edu/~boyd/cvxbook/>
6. **Examination Policy:** exams are open book, open notes, non-graphing calculators are permitted. Students should also read the Calendar, Section G, on Examinations: www.ucalgary.ca/pubs/calendar/current/g.html
7. **Writing across the curriculum statement:** All written work must be legible to the marker and must be presented in an organized and coherent manner. The quality of written work will be a factor in the evaluation of these components, and may affect your final grade in the course. See also Section E.2 of the University Calendar.

8. OTHER IMPORTANT INFORMATION FOR STUDENTS:

- (a) **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](#). Student Misconduct to inform yourself of definitions, processes and penalties.
- (b) **Assembly Points:** In case of an emergency during class time, be sure to FAMILIARIZE YOURSELF with the information on [assembly points](#).
- (c) **Academic Accommodation Policy:** Students with documentable disabilities are referred to the following links: [Calendar entry on students with disabilities](#) and [Student Accessibility Services](#). 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 the Associate Head of Mathematics and Statistics, Jim Stallard, by email at jbstall@ucalgary.ca or by phone at 403-220-3953.
- (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: 220-3911 Email: suvpaca@ucalgary.ca.

SU Faculty Rep. Phone: 220-3913 Email: sciencerep@su.ucalgary.ca; [Student Ombudsman](#).

(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) 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). Your responses make a difference - please participate in USRI Surveys.