Department of Mathematics & Statistics Concordia University

MATH 478 (MATH 618A/MAST 680A) Non-Linear Programming Fall 2015

Course Instructor:	Dr. R. J. Stern, Office: LB 901-19 (SGW), Phone: 848-2424, Ext. 3255 Email: ron.stern@concordia.ca	
Office Hours:	Tuesdays & Thursdays, 10:00-11:00 a.m.	
Textbook:	Convex Optimization by Boyd and Vandenberghe.	
Available Online: Lecture Slides: Errata:	http://www.stanford.edu/~boyd/cvxbook/bv_cvxbook.pdf http://www.stanford.edu/~boyd/cvxbook/bv_cvxslides.pdf http://www.stanford.edu/~boyd/cvxbook_erata.html	
Assignments:	Given weekly and collected weekly. No late assignments will be accepted. <i>You should provide complete arguments in your homework—not just answers</i> . Detailed solutions to assigned problems will be posted on Moodle.	
Class Test:	There will be a class test scheduled in the 7th or 8th week.	
Grading:	10% Assignments, 30% Class Test, 60% Final Exam or 100% Final Exam.	

Weeks	Topics	Chapters
1-2	Convex sets	2
3-4	Convex functions	3
5-6	Convex optimization	4
7-8	Duality	5
9-10	Approximation and fitting	6
11-12	Geometric problems	8
13	REVIEW	