

MAS583A Topics in Mathematics (Combinatorial Optimization)  
2011 Fall, KAIST

We will discuss various topics in combinatorial optimization. We will mainly focus on purely combinatorial results in this area with lots of min-max theorems. Algorithmic questions will not be emphasized.

Lecture	MWF 11AM-11:50AM	Classroom: E6-1 (자연과학동), Room 2413
Instructor	Sang-il Oum (엄상일)	<a href="http://mathsci.kaist.ac.kr/~sangil/">http://mathsci.kaist.ac.kr/~sangil/</a>
	Email: sangil@kaist.edu	Office: E6-1 Room 3403.
Office Hours	Wednesday 4PM or by appointments. (tentative)	
	We will discuss homework solutions during the office hour following the due date. Therefore it is recommended to attend office hours.	
Course website	<a href="http://moodle.kaist.ac.kr/">http://moodle.kaist.ac.kr/</a> . (Passcode will be distributed in class)	
Textbook	No textbook. A lecture note without proofs will be provided.  An excellent reference for this course is: A. Schrijver, Combinatorial Optimization: Polyhedra and Efficiency. New York, NY: Springer-Verlag, 2003. ISBN: 3540443894.	
Grading	40% Homework, 50% Final (Oral Exam), 10% Scribing a Lecture Note.  The lowest score and the second lowest scores from assignments will be dropped. You will earn <i>A</i> if (but not only if) your score is at least 80, <i>B</i> if your score is at least 70, <i>C</i> if your score is at least 60.	
	There will be no make-up exams.	
	One student per each week will be asked to scribe a lecture note and type it in $\text{\LaTeX}$ .	
Homework	Homework will be given weekly or biweekly in class on Friday. The assignment is due at the beginning of class on the following Wednesday. You may collaborate with other students. But homework should be written by yourself independently and you must understand your solution.	