

Combinatorial Optimization (number : 0006651001) Spring, 2018. Incheon National University

Lecture : Tues 10-12am, Wed 4-5pm.

Instructor : O-joung Kwon (<http://ojkwon.com>)

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Office : 05-252

Textbook : Graphs, networks, and algorithms, fourth edition (Dieter Jungnickel)

Grading : 30p Midterm Exam, 30p Final Exam, 20p Homework, 20p Attendance

Homeworks

Homework will be given biweekly on Wednesday, and due at the beginning of class on the following Wednesday. Homework will be posted on <http://ojkwon.com/teaching>. You may collaborate with other students, but homework should be written by yourself independently.

Tentative topics

- 1-2 weeks : Basic graph theory and algorithms
- 3 week : Shortest path
- 4 week : Spanning tree
- 5 week : Matroid
- 6-7 weeks : Flow
- Midterm exam
- 9 week : Graph coloring
- 10-11 weeks : Circulation
- 12-13 weeks : Perfect matching
- 14 week : Matching algorithm
- 15 week : Weighted matching
- Final exam