

# 선형 및 비선형 계산모델

## (2020학년도 봄학기)

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강의홈페이지: <http://3map.snu.ac.kr>

강의실: 신공학관 302동 209호실

강의시간: 화, 목 17:00-18:15

### 강의목표:

선형대수학의 컴퓨터응용에 관하여 공부한다.

선수과목 및 수강에 대한 필수사항: 공학수학 I

### 성적평가방법:

중간고사: 100점

기말고사: 100점

Homeworks, Quizzes & Projects: 100점

### 강의교재:

Gilbert Strang,

*Linear Algebra and Its Applications*, 4th Ed.,

Thomson Books/Cole, 2006.

Related websites: [web.mit.edu/18.06](http://web.mit.edu/18.06) and [ocw.mit.edu](http://ocw.mit.edu)

### 참고문헌:

David Luenberger,

*Linear and Nonlinear Programming*, 2nd Ed., Addison-Wesley, 1984.

Weeks	Lectures	Exams/Quizzes
3/16–21	Matrices and Gauss Elimination	
3/23–28	Matrices and Gauss Elimination	
3/30–4/4	Vector Spaces	HW #1
4/6–11	Vector Spaces	
4/13–18	Vector Spaces	
4/20–25	Orthogonality	HW #2
4/27–5/2	Orthogonality	
5/4–9	Eigenvalues and Eigenvectors	HW #3
5/11–16	Eigenvalues and Eigenvectors	
5/18–23	Positive Definite Matrices	
5/25–30	Positive Definite Matrices	
6/1–5	<b>Final Exam</b>	June 4, 2020 302-106, 107
6/8–13	Computations with Matrices	
6/15–20	Linear Programming	
6/22–27	Linear Programming	
6/29–30	<b>Makeup Exam</b>	