MATH 220-01 – LINEAR ALGEBRA

Semester:	Fall 2010		
Instructor:	Alex Degtyarev		
Office:	Room SA-130	**Phone:**	x 2135
Assistant:	Zafer Selçuk Aygın	**Office:**	SA-144

Exams & Grading: 2 Midterms

- **1st Midterm** (%25) — Oct 14, 2010 **@ 8:40 am**
- **2nd Midterm** (%30) — Dec 2, 2010 **@ 8:40 am**

Final exam (%35)

- **Final Exam** — Finals week

Quizzes (%10) — on Thursdays

75% attendance is obligatory

Two exams missed without a valid excuse = FX

I accept exam rescheduling requests during the first two weeks of classes.
¡¡No changes afterwards!!

Course Schedule:	Monday	10:40–12:30 am	Room BZ 01
	Thursday	9:40–10:30 am	Room BZ 01
Office Hours:	Monday	9:40–10:30 am	
	Thursday	10:40–11:30 pm	

Textbook: Bernard Kolman, *Elementary Linear Algebra*, 9th Edition, (Prentice-Hall, New Jersey, 2008)

Tentative course schedule

Week	Subject	MT	Q
#1	Systems of linear equations. Matrices (1.1–1.5)		
#2	Echelon form of a matrix. Nonsingular matrices (2.1–2.3)		#1
#3	Elementary matrices. LU-factorization (2.3–2.5)		#2
#4	Determinants (3.1–3.5)		#3
#5	Review and catch-up. **Midterm I**	#1	
#6	Vector spaces. Subspaces (4.1–4.4)		#4
#7	Linear independence. Basis and dimension (4.5–4.6)		#5
#8	Coordinates. Homogeneous systems (4.7–4.8)		#6
#9	Rank of a matrix (4.9). Standard inner product (5.1–5.2)		#7
#10	*Iyi bayramlar!!*		
#11	Inner Product spaces. Gram-Schmidt process (5.3–5.4)		
#12	Review and catch-up. **Midterm II.**	#2	
#13	Orthogonal complements (5.5). Linear transformations (6.1)		#8
#14	Kernel and range; matrix (6.2–6.3). Similarity (6.5)		#9
#15	Diagonalization. Eigenvalues and eigenvectors (7.1–7.2)		#10
#16	Diagonalization (continued; 7.3). Review and catch-up.		