Boston University, College of Engineering
ENG EK 102: Introduction to Linear Algebra for Engineers

Course Information: Fall 2009

Meeting Details:

Wednesdays 10am – noon
MCS 148
111 Cummington Street

Instructor:

Professor Perkins
Office: 15 St. Mary's Street, Room 146
Phone: (617) 353–4991
Email: perkins@bu.edu
FAX: (617) 353–5548

Course Website:

http://people.bu.edu/perkins/EK102

Office Hours:

Tuesday 1:30pm-3:30pm (email me to confirm) and by appointment

Textbook:

Gilbert Strang, **Introduction to Linear Algebra** (4^{th} ed.), Wellesley-Cambridge Press, 2009

Problem Sets:

Problem sets will be 40% of course grade. Assigned approximately bi-weekly.

Midterm Exam:

There will be a midterm exam worth 20% of course grade. Date to be determined (either 10/14 or 10/21).

Final Exam:

There will be a final exam worth 30% of course grade. Date to be determined by the College (maybe, 9-11am on Mon 12/21).

Attendance and Participation:

Attendance/Participation in class will be 10% of course grade.

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Course Syllabus: Fall 2009

Class 1: Introduction—Linear Algebra in Engineering

Class 2: Vectors, Matrices, Systems of Equations

Class 3: Solving Linear Equations: Part 1

Class 4: Solving Linear Equations: Part 2

Class 5: Vector Spaces and Subspaces

Class 6: Orthogonality

Class 7: Midterm Exam

Class 8: Determinants

Class 9: Eigenvalues and Eigenvectors: Part 1

Class 10: Eigenvalues and Eigenvectors: Part 2

Class 11: Linear Transformations

Class 12: Numerical Methods and Applications