

ECE 1010-002 Assignments Fall Semester 1997 (revised 12/4/97)

Date	Topic	Reading	Classwork Turned In
8/26	Intro to course & safety	Chapter 1	Prob. 4, Chapt. 1
8/28	Scalars, vectors, and matrices	pp. 32–43	Practice!, p. 40
9/4	Output options and scalar and array operations	pp. 44–55	Practice!, p. 54
9/9	Additional plotting capabilities & Advanced Turboprop Engine	pp. 56–63	Prob. 8, p. 67
9/11	Mathematical functions	pp. 69–78	Practice! p.73 & 78
9/16	Math. functions continued	pp. 78–86	Practice! p. 82 (1,3,6) & p. 86 (1,3,5,7)
9/18	3D plotting and Data analysis functions,	pp. 86–96	Practice! p. 93 (1,5,6)
9/23	Selection functions and statements, logical functions,	pp. 96–103	Practice! p. 99 (2,4,6), p. 101 (1,3), & 103 (1,2,3)
9/25	Problem Solving, and User functions	pp. 103–108	Problem 1, p. 121 Practice! p. 108 (3)
9/30	Random number functions, and matrix manipulation	pp. 108–115	Practice! p. 110 (1), p. 111 (2), & p. 115 (3,5,7)
10/2	Loops, catch up, & work problems	pp. 116–118	Practice! p.117 (3,6), & Problem 3, p. 122
10/7	Matrix operations	pp. 126–130	Practice! p. 130 (all)
10/9	Problem solving, inverse, rank, & determinants	pp. 130–136	Practice! p. 136 (all)
10/14	Eigenvectors and eigenvalues, and decompositions	pp. 136–142	Practice! p. 139 (all)
10/16	Catchup & work problems		Problem 2 p. 144 and Problem 5 p. 145
10/21	Midterm Exam!	Chapters 1–4	

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10/23	Solutions using matrix operations	pp. 149–157	Practice! p. 157 (1,3,5,7)
10/28	Problem solving applied: Circuit analysis	pp. 157–160	Problems 4 & 5 p. 162
10/30	Interpolation	pp. 165–170	Practice! p. 170
11/4	Problem solving applied: Rise-Time and Robot arm manipulation	Notes & pp. 170–174	Problems 1, 2, 3 & 4 p. 181
11/6	Least-squares curve fitting	pp. 171–179	Continue work on assigned problems 1–4
11/11	Begin discussion on numerical Integration	pp. 185–189	Continue work on assigned problems 1–4
11/13	Problem Solving Applied	pp. 189–198	Practice! p. 189
11/18	Numerical differentiation	pp. 193–198	Practice! p. 198 (1,3,5)
11/20	Differential equations in EE	Notes	Special Problem
11/25	Symbolic Algebra and Equation Solving	pp. 225–230	Practice! p. 229, (all) & p. 230 (2,4,6,8)
11/27	Thanksgiving Break		
12/2	Symbolic Differentiation and Integration	pp. 232–234	Practice p. 233 (all) & p. 234 (all)
12/4	Problem Solving Applied	pp. 234–237	Problems 1, 2, & 3 p. 239
12/9	Signal Processing	pp. 241–?	Continue work on Problems 1, 2, & 3
12/11	GUI Design in MATLAB	Notes	None
12/18	Final Exam 10:50 AM–1:20 PM		