

SUPPLEMENTARY MATERIALS II-B-1A: DSP COURSE SCHEDULE

DIGITAL SIGNAL PROCESSING

ENGR 3415

COURSE SCHEDULE

WEEK /DATE	TUESDAY	ASSIGNMENTS DUE TUESDAY	FRIDAY	ASSIGNMENTS DUE FRIDAY
WEEK 1 JAN 19-22	COURSE OVERVIEW DIGITAL FILTERING.	NONE	DIGITAL FILTER DESIGN	REVIEW COMPLEX MATH
WEEK 2 JAN 26-29	CHAPTER 1 INTRO TO DSP. ANALOG VS. DIGITAL.	HW 0	SAMPLING; A/D AND D/A CONVERSION	QUIZ 0 APP A
WEEK 3 FEB 2-5	CHAPTER 2 DISCRETE-TIME SIGNALS. DT SYSTEMS.	HW 1	SYSTEM THEORY; TIME-DOMAIN ANALYSIS AND OPERATIONS; CONVOLUTION	QUIZ 1 APP B
WEEK 4 FEB 9-12	CHAPTER 3 THE Z-TRANSFORM.	HW 2	ANALYSIS OF LTI SYSTEMS IN THE Z-DOMAIN	QUIZ 2 APP C
WEEK 5 FEB 16-19	ANALYSIS OF LTI SYSTEMS IN THE Z-DOMAIN (CONT'D)	HW 3	PROJECT IDEAS PRESENTED AND DISCUSSED CATCH-UP DAY	QUIZ 3 APP D
WEEK 6 FEB 23-26	CHAPTER 5 FREQUENCY RESPONSE OF DT SYSTEMS	PROJECT PROPOSAL OUTLINE	LTI SYSTEMS AS FREQUENCY-SELECTIVE FILTERS	APP E
WEEK 7 MAR 1-4	CHAPTER 6 A RETURN TO SAMPLING AND RECONSTRUCTION	HW 4	SAMPLING AND RECONSTRUCTION OF CT SIGNALS	QUIZ 4 APP F
WEEK 8 MAR 8-11	CHAPTER 9 IMPLEMENTATION OF DISCRETE-TIME SYSTEMS	HW 5	MIDTERM COVERS MATERIAL UP THROUGH LAST FRIDAY, MARCH 4	NONE

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WEEK /DATE	TUESDAY	ASSIGNMENTS DUE TUESDAY	FRIDAY	ASSIGNMENTS DUE FRIDAY
MAR 14-18	<i>SPRING BREAK!</i>			
WEEK 9 MAR 22-25	CHAPTER 9 IMPLEMENTATION OF DISCRETE-TIME SYSTEMS (CONT'D) PROJECT WORK BEGINS ...	PROJECT PROPOSAL DRAFTS	<i>IMPLEMENTATION ISSUES AND CONSTRAINTS</i> PRESENTATION OF PROJECT PROPOSALS	QUIZ 5
WEEK 10 MAR 29- APR 1	CHAPTER 7 THE DISCRETE-TIME FOURIER TRANSFORM	HW 6 AND REVISED PROJECT PROPOSALS	FREQUENCY-DOMAIN SAMPLING; PROPERTIES OF THE DISCRETE FOURIER TRANSFORM; CIRCULAR CONVOLUTION	QUIZ 6
WEEK 11 APR 5-8	CHAPTER 10 DESIGN OF DIGITAL FILTERS. <i>PROJECT PROPOSAL INDIVIDUAL MEETINGS</i>	HW 7	<i>FIR AND IIR FILTERS REVISITED</i>	QUIZ 7
WEEK 12 APR 12-15	WORK ON FINAL PROJECTS, v. 1.0: COMPONENT (KERNEL) DEMONSTRATIONS	HW 8	CLASS PROJECTS v. 1.5: COMPONENT (KERNEL) DEMONSTRATIONS	QUIZ 8
WEEK 13 APR 19-22	OLIN MONDAY (NO CLASS TODAY)	FIRST WORKING DEMOS	CLASS PROJECTS v. 2.5: WORKING DEMOS	DRAFTS OF PROJECT REPORTS
WEEK 14 APR 26-29	CLASS PROJECTS v. 3.0: PROJECT DEMO DAY		STUDY DAY FINAL EXAM TBD BY THE REGISTRAR	