3-Sep-96

Syllabus For NEEP 423-Fall 1996

Nuclear Engineering Materials

314 Mechanical Engineering, 11:00-11:50 AM, MWF

				Instructor	
Date	**#**	**Day**	**Topic**	**GLK**	**JB**
4-Sep	1	W	Introduction		
6-Sep	2	F	Materials for Fission Reactors		
9-Sep	3	M	Metallic Fuels		
11-Sep	4	W	Metallic Fuels		
13-Sep	5	F	LMR Fuels		
16-Sep	6	M	LMR Fuels		
18-Sep	7	W	Enrichment of Nuclear Fuels		
20-Sep	8	F	Enrichment of Nuclear Fuels		
23-Sep	9	M	Zircalloy		
25-Sep	10	W	Zircalloy		
27-Sep	11	F	Chapter 10 Fuel Element Performance		
30-Sep	12	M	Chapter 10 Fuel Element Performance		
2-Oct	13	W	Chapter 10 Fuel Element Performance		
4-Oct	14	F	Chapter 10 Fuel Element Performance		
7-Oct	15	M	Chapter 11 Fuel Element Chemistry		
9-Oct	16	W	Chapter 11 Fuel Element Chemistry		
11-Oct	17	F	Exam		
14-Oct	18	M	Failure of Fuel Elements		
16-Oct	19	W	Failure of Fuel Elements		
18-Oct	20	F	Failure of Fuel Elements		
21-Oct	21	M	Chapter 12 Behaviour of Fission Products		
23-Oct	22	W	Chapter 12 Behaviour of Fission Products		
25-Oct	23	F	Chapter 13 Swelling Due to Fission Products		
28-Oct	24	M	Chapter 13 Swelling Due to Fission Products		
30-Oct	25	W	Chapter 13 Swelling Due to Fission Products		
1-Nov	26	F	Chapter 13 Swelling Due to Fission Products		
4-Nov	27	M	Chapter 14 Pore Migration and Restructuring		
6-Nov	28	W	Chapter 15-Fission Gas Release		
8-Nov	29	F	Chapter 15-Fission Gas Release		
11-Nov	30	M	Corrosion Effects in Fuel Elements		
13-Nov	31	W	Corrosion Effects in Fuel Elements		
15-Nov	32	F	Corrosion Effects in Fuel Elements		
18-Nov	33	M	Exam		
20-Nov	34	W	Review Exam		
22-Nov	35	F	Nuclear Plant Life Extension		
25-Nov	36	M	Embrittlemen of Pressure Vessels		
27-Nov	37	W	Embrittlemen of Pressure Vessels		
2-Dec	38	M	Structural Materials-Fission		
4-Dec	39	W	Structural Materials-Fission		
6-Dec	40	F	Structural Materials-Fusion		
9-Dec	41	M	Structural Materials-Fusion		
11-Dec	42	W	Structural Materials-Fusion		
13-Dec	43	F	Review For Exam		
15-Dec		Su	Final Exam- 12:25-2:25		