

IE 5513 - Engineering Safety

Schedule: The following is a tentative schedule of lecture topics.

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Week (tent)	Subject	Chapter
1	Importance of safety and health for engineers	1
	Safety and health professions	2
2	Fundamental concepts and terms	3
	Federal agencies, laws and regulations	4
	Other laws, regulations, standards and codes	5
3	Worker's compensation	6
	Product liability	7
4	Record keeping and reporting	8
	General principles of hazard control	9
	Mechanics and structures	10

5	Walking and working surfaces	11
	Electrical safety	12
	EXAM 1	
6	Tools and machines	13
7	Transportation, material handling	14-15
8	Fire protection and prevention	16
9	Explosions and explosives, heat and cold, pressure	17-19
10	Visual Environment	20-22
	EXAM 2	
11	Noise and vibration, chemicals	23-24
12	Ventilation, biohazards, hazardous waste, personal protective equipment	25-28
13	Emergencies, facility planning and control, human behavior and performance in safety	29-31
14	Procedures, rules and training; ergonomics	32-33
15	Managing safety and health	34-38
	EXAM 3	