

ECET4520 – Industrial Distribution, Illumination & the NEC

Fall Semester 2017

Lecture: Tuesdays/Thursdays 9:30am-10:45am Lab: Thursdays 11:00am-1:50pm

Date	Lecture Topics	Lab
08/15	Course Introduction	No Lab
08/17	Electrical Distribution System Components	
08/22	Introduction to the National Electric Code (NEC)	Distribution System Tour
08/24	Conductors – Types, AWG, Ampacity...	
08/29	Conductors – Types, AWG, Ampacity...	1
08/31	Protective Devices – Fuses, Circuit Breakers, Overload Relays	
09/05		2
09/07	Single-Phase vs. Three-Phase Distribution Systems	
09/12	Electric Distribution Systems – NEC Requirements (part I)	3
09/14	Electric Distribution System Protection	
09/19	Design Components and Examples	4
09/21	Design Components and Examples	
09/26	TBD	5
09/28	Overloads and Faults	
10/03	Review	6
10/05	***** Exam I *****	
10/10	Fault Calculations	7
10/12	Fault Calculations	
10/17	Voltage Drop Effects	8
10/19	Voltage Drop Calculations	
10/25	Voltage Drop Calculations	9
10/26	Electric Distribution Systems – NEC Requirements (part II)	
10/31	Calculated Load and Demand Factors	10
11/02	Branch Circuit Requirements	
11/07	Branch Circuit Requirements	No Lab
11/09	Review	
11/14	***** Exam II *****	Project Meetings
11/16	TBD	
11/21	*** No Classes – Fall Break ***	☼
11/23	*** No Classes – Fall Break ***	
11/28	Lighting Systems	No Lab
11/30	Illumination Considerations	
12/05-11	(Final Exams)	