

EIND 442 Course Schedule

Fall 2018

Date	Topic	Reading
8/27	Course Introduction	Sec. 1.1 - 1.2
8/29	Engineering Design Process	Sec. 1.3 - 1.4
8/31	Strategic Facilities Planning	Sec. 1.5 - 1.8
9/3	<i>No class – Labor Day</i>	
9/5	Process Design	Sec. 2.1 – 2.3
9/7	Capacity estimation / machine fractions	Sec. 2.4
9/10	Reject Allowance Problem	
9/12	Multi-Activity charts	Sec. 2.4, 2.6
9/14	QUIZ 1	
9/17	Flow Patterns & Principles	Sec. 3.1 – 3.3
9/19	Direct Clustering Algorithm	Sec. 3.4
9/21	Line Balancing & Work Cells	Handout
9/24	Activity Relationships	Sec. 3.5
9/26	Space Requirements	Sec. 3.6 – 3.7
9/28	QUIZ 2 ; Visual Management	Handout
10/1	Personnel Considerations	Sec. 4.1 - 4.4
10/3	Personnel Considerations, cont.	Sec. 4.5 - 4.8
10/5	Material Handling Principles	Sec. 5.1 – 5.4
10/8	Unit Load Design	Sec. 5.5
10/10	Unit Load Evaluation	
10/12	QUIZ 3 ; MH Costs and Safety	Sec. 5.7 - 5.8
10/15	CICMHE Project Kick-off	
10/17	Material Handling Equipment	Sec. 5.6 & Appendix 5B
10/19	Systematic Layout Planning	Sec. 6.1 – 6.3; handouts
10/22	FactoryPLAN (in lab)	
10/24	Layout Algorithms: pairwise exchange	Sec. 6.4.1-6.4.2
10/26	Layout Algorithms: CRAFT	Sec. 6.4.4
10/29	FactoryCAD (in lab)	
10/31	ProPlanner (in lab)	
11/2	QUIZ 4	
11/5	Warehousing introduction	Sec. 7.1 – 7.3
11/7	Warehouse Receiving & Shipping	Sec. 7.4 – 7.5
11/9	Warehousing: Storage Design	Sec. 7.6, 10.5

11/12	<i>No class – Veteran’s Day</i>	
11/14	Warehousing: Order Picking	Sec. 7.7 – 7.8, 10.7
11/16	Warehouse Management Systems	
11/19	QUIZ 5	
11/21	<i>No class – Happy Thanksgiving!</i>	<i>CICMHE Project Due!</i>
11/23	<i>No class – Happy Thanksgiving!</i>	
11/26	Facilities Systems	Sec. 9.1 - 9.10
11/28	Facilities Location	Sec. 10.2
11/30	Facilities Location, cont.	
12/3	Senior Design Project Introduction	
12/5	Senior Design Project Kick-off	
12/7	Review and course wrap-up	
<hr/>		
12/13	QUIZ 6 and Final Exam, 4:00-5:50 p.m.	
<hr/>		