

Department of Civil and Environmental Engineering
CE 3520 (222)-Civil Engineering Materials

Spring 2010

Tentative Course Outline

Texts: *The Science and Technology of Civil Engineering Materials*, by Young et al.
Design and Control of Concrete Mixtures, 14th Ed., by Portland Cement Association

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Date	Day	Topic	Reading Assignment	
			PCA	Young et al.
1/18	M	No class		
1/19	Tu	No Lab		
1/20	W	Concrete Aggregates	pp.1-5, Ch 5, pg. 276-278	Ch. 10
1/21	Th	No lab		
1/25	M	No class		
1/26	Tu	Lab – Sieve Analysis and FM		
1/27	W	Aggregate Gradation		
1/28	Th	Lab -Sieve Analysis and FM		
2/1	M	Cements	Ch. 2, pp. 57-61, Ch.4	11.1 - 11.3.2
2/2	Tu	Lab -Flat & Elongated and fractured faces		
2/3	W	Cements and Hydration	pg.4, Ch. 12	11.1 - 11.3.2
2/4	Th	Lab - Flat & Elongated and fractured faces		
2/8	M	Concrete mix design	Ch. 9	11.6
2/9	Tu	Lab -Specific gravity		
2/10	W	Concrete mix design	Ch. 9	11.6
2/11	Th	Lab -Specific gravity		
2/15	M	Concrete mix design	Ch. 9	11.6
2/16	Tu	Lab -FAA		
2/17	W	Concrete admixtures	Ch. 6, Ch. 3	4.5, 11.2.4, 11.3.3
2/18	Th	Lab -FAA		
2/22	M	Concrete admixtures	Ch. 6, Ch. 3	4.5, 11.2.4, 11.3.3
2/23	Tu	Lab -Consistency and time of setting		
2/24	W	Concrete curing	pg.4, Ch. 12	11.1 - 11.3.2
2/25	Th	Lab -Consistency and time of setting		
3/1	M	Concrete properties	Ch. 1	Ch. 9
3/2	Tu	Lab – Concrete Mix and slump		
3/3	W	Concrete properties	Ch. 1	Ch. 9
3/4	Th	Lab -Concrete Mix and slump		
3/8	M	No class		
3/9	Tu	No Lab		
3/10	W	No class		
3/11	Th	No lab		
3/15	M	Durability	Ch. 8	11.4 - 11.5; 13.5
3/16	Tu	Lab -14-days compressive strength		
3/17	W	Test		
3/18	Th	Lab -14-days compressive strength		
3/22	M	NDT, Quality control	pp. 157-158,275-276, 292-295,308	
3/23	Tu	No Lab		
3/24	W	Asphalt		12.1-4
3/25	Th	No Lab		
3/29	M	Asphalt		12.5
3/30	Tu	Lab -28-day concrete strength tests		
3/31	W	Asphalt		12.5
4/1	Th	Lab -28-day concrete strength tests		
4/5	M	Steel		Ch. 13
4/6	Tu	Lab -Analysis of temp. & RH data		
4/7	W	Steel properties		Ch. 5
4/8	Th	Lab - Analysis of temp. & RH data		
4/12	M	Woods and timber		Ch. 14
4/13	Tu	Lab -Steel tensile strength test		
4/14	W	Woods and timber		Ch. 14
4/15	Th	Lab -Steel tensile strength test		

4/19	M	Time dependent properties	Ch. 15	7.5, pp. 237-241
4/20	Tu	Lab -Steel torsion test		
4/21	W	Time dependent properties	Ch. 15	7.5, pp. 237-241
4/22	Th	Lab -Steel torsion test		
4/26	M	Fatigue		Ch. 8
4/27	Tu	Lab -Lab Test		
4/28	W	Fatigue		Ch. 8
4/29	Th	Lab -Lab Test		

Tentative Point Distribution

Homework	10%
Quizzes	10%
Lab Reports	20%
Lab Test	20%
Midterm	20%
Final	20%

Office Hours

MW: 9-10am