CMGT 350 - Statics and Strength of Materials

Term: **Fall Semester - 2022**
Days: **Tuesday & Thursday**
Time: **Section 01: 11:00 - 12:15 pm, Section 02: 12:30 - 1:45 pm**
Bldg: **LANG 204**

For Course Discussions, Handouts, and Homework Assignments see: http://lorisweb.com

Date	Day	DIS	Chapt.	Topic	Text Reading
8/23	T	1	**1**	Fundamental Concepts and Principles A Brief Review of Mathematics	1-1 through 1-14
8/25	R	2	**2**	Resultant of Concurrent Coplanar Force Systems **Quiz #1**	2-1 through 2-5
8/30	T	3		TBD	
9/1	R	4		Moment of a Force, Varignon's Theorem, Couple **Quiz #2**	2-6, 2-7, 2-8, 2-9
9/6	T	5		Resultant of Nonconcurrent Coplanar Force System Resultant of Distributed Line Loads	
9/8	R	6	**3**	Equilibrium of Coplanar Force Systems **Quiz #3**	3-1, 3-2, 3-3, 3-4
9/13	T	7		Equilibruim of Concurrent Coplanar Force Systems	3-5
9/15	R	8		Equilibrium of Nonconcurrent Coplanar Force Systems Three-Force Body **Quiz #4**	3-6
9/20	T	9	**4**	Analysis of Structures	4-1 through 4-5
9/22	R	10		**Exam #1 - Chapters 1, 2, 3**	
9/27	T	11		Analysis of Structures Frames and Machines	4-6, 4-7
9/29	R	12	**7**	Center of Gravity and Centroids **Quiz #5**	7-1 through 7-5
10/4	T	13	**8**	Area Moment of Inertia	8-1, 8-2, 8-3, 8-4
10/6	R	14		Moment of Inertia of Built-Up Structural Steel Sections **Quiz #6**	8-5
10/11	T	15	**9**	Simple Stresses	9-1, 9-2, 9-3
10/13	R	16		Direct Shear Stresses. Bearing Stresses **Quiz #7**	9-4, 9-5
10/18	T	17	**10**	Strain	10-1 through 10-4
10/20	R	18	**11**	Mechanical Properties of Materials **Quiz #8**	11-1 through 11-6
10/25	T	19	**13**	Shear Forces and Bending Moments in Beams	13-1 through 13-5
10/27	R	20		Shear Forces and Bending Moment Diagrams **Quiz #9**	13-6, 13-7, 13-8
11/1	T	21	**14**	Stresses in Beams	14-1 through 14-4
11/3	R	22		**Exam #2 - Chpts 7, 8, 9, 10, 11**	
11/8	T	23		Shear Stress Formula for Beams	14-5
11/10	R	24	**15**	Design of Beams for Strength **Quiz #10**	15-1, 15-2, 15-3

Date	Day	DIS	Chapt.	Topic	Text Reading
11/15	T	25		Design of Beams for Strength	
11/17	R	26	**16**	Deflections of Beams **Quiz #11**	16-1, 16-2, 16-3
11/22	T	27		Thanksgiving Break	
11/24	R	28		Thanksgiving Break	
11/29	T	29	**18**	Combined Stresses	18-1, 18-2, 18-3
12/1	R	30		**Exam #3 - Chapters 13, 14, 15, 16**	
12/6	T	31		Eccentrically Loaded Members	18-3, 18-4
12/8	R	32		Final Exam Review **Quiz #12**	
TBA				**Final Exam - Comprehensive Exam**	