San Jose State University
Mechanical Engineering Department

ME 20		Design & Graphics	Fall 2018
Faculty:	Prof. Ken Youssefi, (Course Coordinator)	Email: kyoussefi@aol.com Office: E	

COURSE SCHEDULE

Week	Date (Mon)	Subject	Reading Assign. (Ch., 7th ed.)
1	8/21 – 8/23	No Labs on Tuesday, Wednesday and Thursday	
2	8/27	Lect. - Introduction and course organization	(1)
		Lab. - Introduction to 3D modeling using SW, lab. work #1 (Sketching and Extrusion)	
3	9/3	Lect. - Holiday – Labor Day	
		Lab. - Solid modeling with SW, lab. work #2 (Sketching and Extrusion)	
4	9/10	Lect. - Introduction to 3D modeling; modeling fundamentals, ( )	(2, 3, notes)
		surface and solid modeling	
		Lab. - Solid modeling with SW, lab. work #3 (Extrusion and Revolve)	
5	9/17	Lect. - Intro to 3D modeling; design intent, Boolean operations ( )	(4, notes)
		Lab. - Solid modeling, Lab. work #4 (Revolve and Sweeps)	
6	9/24	Lect. - Advanced 3D modeling technique; Sweep and Loft	(4, notes)
		Lab. - SolidWorks, lab. work #5 (Patterns and Loft)	
		Product list due Friday Sept. 28 (upload to Canvas by 11:00 pm)	
7	10/1	Lect. - Engineering Design Process; Concurrent engineering	(2, notes)
		Lab. - SolidWorks, Lab. work #6 (Loft, Sweep and mechanical parts)	
8	10/8	Lect. - Assembly drawing; top-down and bottom-up design approach	5, (notes)
		Various mates and conditions	
		Lab. - SolidWorks, Lab. work #7 (assembly and exploded views)	
9	10/15	Lect. - Orthographic projection and standard 2D views	(10, notes)
		Lab. - SolidWorks, Lab. work #8 (2D drawing from the 3D model and Revolve)	
10	10/22	Lect. - Dimensioning and tolerancing (size and GDT); rules and standards	(6, 10, notes)
		Lab. – SolidWorks, Lab. work #9 (2D drawings with dimensions) Sections and M 0 Ton 4F2 d(1004 Tc5	