

ME 471

LECTURE SCHEDULE

FALL 2011

Tuesday & Thursday 10:00AM – 10:50AM MDT¹

Week Of	Topics/Events	Readings	Handouts
29 Aug	T – Overview Course & Student Introduction	Zeid Chapter 19 (Chapter 2)	Syllabus Lecture Schedule Lab Schedule Final Project
	Th – Collaborative Design	Zeid Chapter 23	
5 Sep	T – Product Lifecycle Management I		Team Organization Vehicle Design
	Th – Product Lifecycle Management II	Zeid Chapter 16	
12 Sep	T – Vehicle Design		
	Th – Assembly Skeleton Parametrics I	Zeid Chapter 18	
19 Sep	T – Assembly Skeleton Parametrics II	(Zeid Chapter 3)	Homogenization (ESO or Soft Kill) Topological-shape Sensitivity (BEM or Hard Kill)
	Th – Data Exchange		
26 Sep	T – Topology Optimization I		
	Th – Topology Optimization II	Zeid Chapter 6	
3 Oct	T – Model Reparameterization		
	Th – Wireframe Modeling	Zeid Chapter 7	
10 Oct	T – Surface Modeling I		
	Th – Surface Modeling II	Zeid Chapter 9	
17 Oct	T – Surface Modeling III	Zeid Chapter 10	
	Th – Solid Modeling	(Zeid Chapter 4, 20)	
24 Oct	T – Solids and PMI		
	Th – Written Midterm	Zeid Chapter 17	
31 Oct	T – FEA I		
	Th – FEA II		
7 Nov¹	T – Assembly FEA	Zeid Chapter 13	
	Th – Visualization	Zeid Chapter 15	
14 Nov	T – Mass Properties	Zeid Chapter 14	
	Th – Motion		Fundamentals of Computational Fluid Dynamics ²
21 Nov	T – Considered Friday		

¹ BYU enters Mountain Standard Time (Change from UTC -6hrs to UTC -7hrs)

² http://maji.utsi.edu/courses/07_681_advanced_viscous_flow/ref_af6_Fundamentals_of_CFD.pdf

Week Of	Topics/Events	Readings	Handouts
	Th– No Class – Thanksgiving Holiday (USA)		
28 Nov	T– Computational Fluid Dynamics		
	Th– Rapid Prototyping		
5 Dec	T– Final Exam Review		
	Th– Written Final Exam		
12 Dec	F– 14:30 – 17:30 MT Final Presentation		
