

ME 650 Computational Fracture Mechanics - Spring 2018

Class #	Topic
	1 Introduction to course
	2 LEFM Basic
	3 CFM - LEFM
	4 CFM - LEFM
	5 CFM - LEFM
	6 J-Integral: Theory
	7 J-Integral: Theory
	8 Crack Growth in Elastic Solids
	9 Physical Theory of Fracture and CZM
	10 The J-Integral: computations
	11 Cohesive Zone Models (CZM)
	12 Numerical Aspects - CZM
	13 CZM Theory
	14 CZM Stability
	15 CZM in ABAQUS/CAE
	16 CZM Fatigue
	17 EXAM 1
	18 Nonlinear Fracture Mechanics
Spring Break	
	19 Nonlinear Fracture Mechanics
	20 Nonlinear Fracture Mechanics
	21 Micromechanics of ductile failure
	22 Micromechanics of ductile failure
	23 The Tensile Test
	24 EXAM 2
	25 Ductile Fracture
	26 Ductile Fracture
	27 Thin Walled Structures
	28 Dynamic Fracture
	29 Dynamic Fracture
	30 Dynamic Fracture
	Finals Week : Final project due