





**Course Schedule:**

<b>Weekday</b>	<b>Topic</b>	<b>Reading and Notes</b>
Jan. 7 <sup>th</sup>	Historical Overview	Chapters 1 and 2 (Drop Deadline Jan. 11 <sup>th</sup> )
Jan. 14 <sup>th</sup>	Microstructural Considerations; Stress Life Approach	Chapters 3 and 4
Jan. 21 <sup>st</sup>	No Class	(MLK Holiday Jan. 21 <sup>st</sup> )
Jan. 28 <sup>th</sup>	Strain Life Approach; LEFM Approach	Chapters 5 and 6
Feb. 4 <sup>th</sup>	Notch Effects	Chapters 7; HW 1 Due
Feb. 11 <sup>th</sup>	<b>Exam I</b>	N/A
Feb. 18 <sup>th</sup>	Consideration of Large Structures; Variable Amplitude Loading and Life Prediction Methods	Handouts and Chapter 10
Feb. 25 <sup>th</sup>	Multiaxial Fatigue	Chapter 10 (Withdraw Feb 29 <sup>th</sup> )
Mar. 3 <sup>rd</sup>	Design and Fatigue of Weldments	Handouts and Chapter 12; HW 2 Due
Mar. 10 <sup>th</sup>	No Class	(Spring Break Mar. 10 <sup>th</sup> – 15 <sup>th</sup> )
Mar. 17 <sup>th</sup>	<b>Examination II</b>	N/A
Mar. 24 <sup>th</sup>	Environmental Effects	Chapter 11; Proposal Due
Mar. 31 <sup>st</sup>	Statistical Considerations	Chapter 13; HW 3 Due
Apr. 7 <sup>th</sup>	Constitutive Modeling	Handouts
Apr. 14 <sup>th</sup>	Fatigue Experimentation	Handouts
Apr. 21 <sup>st</sup>	Case Studies	<b>Final Report Due</b>

**Note:** This schedule may be modified by Dr. Gordon.

**Grading:** The letter grade will be assigned according to the following scale:

- A: [90, 100]
- B: [80, 90)
- C: [70, 80)
- D: [60, 69)
- F: [0, 60)