

### Tentative List of Lectures and Activities

<b>Date (MWF)</b>	<b>Lectures</b>	<b>Topics</b>	<b>Reading/ Chapter</b>	<b>HW/quiz</b>
<b>Week#1</b> August 27 (W) August 29 (F)	Lectures 1 Lecture 2	Introduction Course overview	Chapter 1	
<b>Week#2</b> September 1 (M) September 3 (W) September 5 (F)	Lecture 3 Lecture 4 Lecture 5	Atomic Structure	Chapter 2	HW1: posted 09/05/14
<b>Week#3</b> September 8 (M) September 10 (W) September 13 (F)	Lecture 6 Lecture 7 Lectures 8	Crystal Structure	Chapter 3	Quiz#1:Chapter_2  HW2: posted 09/13/14
<b>Week#4</b> September 15 (M) September 17 (W) September 19 (F)	Lecture 9 Lecture 10 Lectures 11	Imperfection in Solids; Diffusion in Solids	Chapter 4&5	Quiz#2:Chapter_3 HW3: posted 09/19/14
<b>Week#5</b> September 22 (M) September 24 (W) September 26 (F)	Lecture 12 Lecture 13 Lectures 14	Mechanical Properties	Chapter 6	Quiz#3:Chapters4& 5  HW4: posted 09/26/14

<b>Week#6</b> September 29 (M) October 1 (W) October 3 (F)	Lecture 15 Lecture 16 Lectures 17	Dislocations & Strengthening Mechanism	Chapter 7	Quiz#4: Chapter_6  HW5: posted 10/03/14
<b>Week#7</b> October 6 (M) October 8 (W) October 10 (F)	Lecture 18 Lecture 19 <b>Mid_term_1</b>	Mechanical Failure	Chapter 8	Quiz#5: Chapter_7 <b>Tutorial</b> HW6:posted 10/10/14
<b>Week#8</b> October 13 (M) October 15 (W) October 17 (F)	Lecture 20 Lecture 21 Lecture 22	Phase Diagrams	Chapter 9	Quiz#6: Chapter_8  HW7: posted 10/17/14
<b>Week#9</b>		<b>Fall Break</b>		N/A
<b>Week#10</b> October 27 (M) October 29 (W) October 30 (F)	Lecture 23 Lecture 24 Lecture 25	Phase Transformations	Chapter 10	Quiz#7: Chapter_9  HW8: posted 10/30/14
<b>Week#11</b> November 3 November 5 November 7	Lecture 23 Lecture 24 Lecture 25	Metal Alloys	Chapter 11	Quiz#8:Chapter_10  HW9: posted 11/07/14
<b>Week#12</b> November 10 November 12 November 15	Lecture 26 Lecture 27 <b>Mid_term_2</b>	Ceramics &Processing	Chapters12& 13	<b>Tutorial</b> HW10:posted 11/14/14

<b>Week#13</b> November 17 November 19 November 21	Lecture 28 Lecture 29 Lecture 30	Polymers	Chapter 14& 15	HW11: posted 11/21/14
<b>Week#14</b> November 24 <b>November 26</b> <b>November 28</b>	Lecture 31	Polymers  <b>Thanksgiving</b> <b>Thanksgiving</b>		HW12: posted 11/28/14
<b>Week#15</b> December 1 December 3 December 5	Lecture 32 Lecture 33 Lecture 34	Composites	Chapter 16	HW13: posted 11/28/14
<b>Week#16</b> December 8 <b>December 10</b>	Lecture 35 <b>Lecture 36</b>	Course overview		<b>Tutorial Final</b>

**Suggestions for success in this class:**

1. Attendance is your **job** – come to class!
2. **Read** the relevant material (preferably before the lecture topic)
3. **Review** and understand the examples given.
4. **Do the assigned homework.**
5. **Come to office and TA's hours.**

**Academic success is directly proportional  
to the amount of time devoted to studying!!**