

**MMAT 380 – Structures and Properties of Materials  
Textbook Reading List (Smith – 2<sup>nd</sup> edition)**

<b>Chapter</b>	<b>Sections</b>
1 (Iron-Carbon Alloys I)	All
2 (Iron-Carbon Alloys II)	All
3 (Carbon Steels)	All - except 3-1, 3-2, 3-3, 3-8, 3-11
4 (Alloy Steels)	All - except 4-10, 4-11
14 (Surface Hardening)	14-1, 14-4
9 (Tool Steels)	All - except 9-10
8 (Cast Irons)	8-1, 8-2, 8-3, 8-4, 8-5
7 (Stainless Steels)	All
5 (Aluminum Alloys)	All - except 5-1, 5-9, 5-10
10 (Ti and its alloys)	10-2, 10-3, 10-4, 10-5, 10-6, 10-7, 10-8, 10-9
12 (Mg and Zinc alloys)	12-2, 12-3, 12-5, 12-6, 12-7, 12-8, 12-9, 12-11, 12-14
11 (Ni and cobalt alloys)	11-5, 11-6, 11-7, 11-8

