

**ME 160L - Mechanical Engineering Design I - Spring 2012**  
**Bob Greenlee - ME Building 323 - Phone 277-5613 - Email: bgreen@unm.edu**  
**Office Hours: 12:00 PM - 2:00 PM Monday - Thursday**

**Book:** A concise Introduction to Engineering Graphics - Forth Edition – Timothy Sexton (Lecture)  
 Pro/ENGINEER Wildfire 5.0 - INSTRUCTOR – David S. Kelley (Lab)

**Flash Drive:** 1 GB Minimum – Needed for storing Pro/E drawings

Week	Date	Description
<b>1</b>	1/16	<b>Dr. Martin Luther King Day – no classes</b>
	1/18	Introduction to engineering and course
	Lab	Chapters 1 and 2 (Kelley)
<b>2</b>	1/23	Multiview drawings - Read Chapter 3 (Sexton) – MVN 1A-3A due 1/25
	1/25	More Multiview drawings – Handout due 2/1
	Lab	Chapter 3 (Kelley)
<b>3</b>	1/30	Missing Line drawings
	2/1	Isometric drawings – Read Chapter 4 (Sexton) – ISMN 1A, 2A, 3A due 2/6
	Lab	Chapter 4 (Kelley)
<b>4</b>	2/6	More Isometric drawings – Handout due 2/13
	2/8	More Isometric drawings - review for Exam
	Lab	Chapter 5 (Kelley)
<b>5</b>	2/13	<b><u>EXAMI</u></b>
	2/15	Project 1 - General discussion of requirements and divide into groups - due 3/5
	Lab	Chapter 6 (Kelley)
<b>6</b>	2/20	Defining the problem
	2/22	Formulating solutions
	Lab	Chapter 7 (Kelley)
<b>7</b>	2/27	Full Sections - Read Chapter 7 (Sexton) – SECF-1A due 2/29
	2/29	More sections – SECH-1A, SECOF-1A, SECBO-1A, SECAL-1A, SECR-1A due 3/7
	Lab	Chapter 8 (Kelley)
<b>8</b>	3/5	Project II - assignment and discussion – due 5/3 - Turn in Project I
	3/7	Project II - more discussion
	Lab	Chapter 9 (Kelley)
<b>9</b>	3/12	<b>SPRING BREAK – no classes</b>
	3/14	<b>SPRING BREAK – no classes</b>
	Lab	<b>SPRING BREAK – no classes</b>
<b>10</b>	3/19	Dimensioning - Read Chapter 9 (Sexton) - Handout due 3/26
	3/21	More Dimensioning
	Lab	Chapter 10 (Kelley)

<b>11</b>	3/26	Introduction to manufacturing
	3/28	Guidelines: design for manufacturing and assembly
	Lab	Chapter 11 (Kelley)
<b>12</b>	4/2	Introduction to Plastic Design
	4/4	<b><u>EXAM II</u></b>
	Lab	Chapter 12 (Kelley)
<b>13</b>	4/9	Working Drawings - Read Chapter 12 (Sexton)
	4/11	Engineering Economics - Handout due 4/18
	Lab	Pro/E Topics – work on project
<b>14</b>	4/16	More Engineering Economics
	4/18	Introduction to ethics
	Lab	Pro/E Topics – work on project
<b>15</b>	4/23	The responsibilities of engineering
	4/25	Environmental Ethics
	Lab	Pro/E Topics – work on project
<b>16</b>	4/30	Environmental Ethics
	5/2	<b><u>EXAM III</u></b>
	Lab	Pro/E Topics – Projects due at end of lab 5/3