Modern Algebra
MATH 325W – Spring 2015

Monday:	Chapter 9: PIDs	
Wednesday:	Chapter 9: PIDs	**Week 7**
Friday:	Chapter 10: Algebraic Elements	

Homework

Homework #11 **due Tuesday, March 3**

Ch. 8: #8, 9
Ch. 9: #7
Hint: GCD!
Extra #1: Define $I = \{p(x) \in \mathbb{R}[x] : p(0) = 0 \text{ and } p'(0) = 0\}$ where $p'(x)$ denotes the usually derivative of $p(x)$. Show that I is an ideal of $\mathbb{R}[x]$.

Homework #12 **due Friday, March 6**

Ch. 9: #9
Ch. 10: #8, 10
Extra #1: Define $I = \{p(x) \in \mathbb{R}[x] : p(0) = 0 \text{ and } p'(0) = 0\}$ where $p'(x)$ denotes the usually derivative of $p(x)$. Show that I is a **principal** ideal of $\mathbb{R}[x]$. *Note: you already proved that it is an ideal.*

Writing Assignments

On writing assignments, part of your grade will reflect the quality of your ***style***. Style includes everything from the basic mechanics of writing (complete, grammatically correct sentences with capitalization and proper punctuation) to the conventions of writing mathematics developed in Linear Algebra.

Writing Assignment #6 **due Wednesday, March 4**

Ch. 7: #25
Ch. 8: #41
Ch. 9: #8