FALL SCHEDULE				
WEEK	LECTURE	LABORATORY		
1 Sep 6 Sep 12	Introduction to COE 538 Scope and objectives Management			
	INTRODUCTION TO THE HCS12 μ-CONTROLLER			
	- 1.3 Computer Hardware Organization			
	- 2.3 Assembly Directives			
2 Sep 13 Sep 19	HCS12 ASSEMBLY PROGRAMMING - 2.5 Writing Programs to Do Arithmetic	Lab 1 Using the CodeWarrior IDE and Introduction to Assembly Programming		
3 Sep 20 Sep 26	ADVANCED ASSEMBLY PROGRAMMING - 4.3 Stack	Lab 2 Programming the I/O Devices		

FALL SCHEDULE			
WEEK	LECTURE	LABORATORY	
4 Sep 27 Oct 3	INTERRUPTS - 6.2 Fundamental Concepts of Interrupts262-266 ANALOG-TO-DIGITAL CONVERTER - 12.2 Basics of A/D Conversion		
5 Oct 4 Oct 10	INTERRUPTS, CLOCK GENERATION, AND OPER-ATION MODES - 6.3 Resets	Lab 3 Battery and Bumper Displays	
6 Oct 11 Oct 17	TIMER FUNCTIONS - 8.5 Input-Capture Function	"	
7 Oct 18 Oct 24	MIDTERM Covers material up to end of week 5 (excluding chapter 8)	Lab 4 Motor Control & Using the Hardware Timer	
8 Oct 25 Oct 31	C LANGUAGE PROGRAMMING - 5.3 Types, Operators, and Expressions	Lab 5 Robot Roaming Program	

FALL SCHEDULE			
WEEK	LECTURE	LABORATORY	
9 Nov 1 Nov 7	SERIAL COMMUNICATION INTERFACE - 9.3 The RS-232 Standard	"	
10 Nov 8 Nov 14	THE SPI FUNCTION - 10.2 Introduction to the SPI Function	Project Robot Guidance Challenge	
11 Nov 15 Nov 21	INTER-INTEGRATED CICUIT (I²C) INTERFACE - 11.2 The I²C Protocol		
12 Nov 22 Nov 28	INTERNAL MEMORY CONFIGURATION AND EXTERNAL EXPANSION - 14.3 Internal Resource Remapping	"	
13 Nov 29 Dec 5	REVIEW AND CATCH-UP	Project Submission	
14 - 15 Dec 6 Dec19	FINAL EXAMINATION	Covers material up to end of week 12	