

## Course Calendar

Week	Topic	Day 1	Day 2	Day 3
1	Github/Python/Object Oriented programming	Class introduction	More with OOP, methods, and __init__, methods, propperties. Begin git.	git: commits, branches, pull-requests, working as a team, begin first git projects
2	Introduction to WPILIB and APIs	End first project, and then work on uploading robotpy and wpilib	<b>Spring Visits</b> Introduction to poses. How are poses recorded, introduction to gyro and angles. How are robots programmed intro to the methods and file structure of common frc robots	<b>Spring Visits</b> Project 1: Programming ROMI to drive and implement one sensor or actuator
3	Introduction to Robot code (Timed Robot)	Class Time for Project 1		<b>DCMP</b>
4	Using Encoders and Gyros to update robot position	<b>No HW Due</b> Review for Test 1	Test 1	
5	Subsystems		<b>(WORLD5)</b>	<b>Midterm (WORLD5)</b>
6	Unit Testing			<b>NO CLASS: Long Weekend</b>
7	Command Based Robot	Test 2	Introduction to Command Based Robot	Project 2: Work time

Week	Topic	Day 1	Day 2	Day 3
8	Autonomous Command Project 2 and PID Controllers	Project 2 Work time		
9	PID Con- trollers/Final Project			
10	Final Project			<b>NO CLASS: Prize Day</b>
11	Final Project Presentations	<b>TEE</b>	<b>NO CLASS</b>	<b>NO CLASS</b>