

Course Calendar

Week	Topic	Day 1	Day 2	Day 3
1	Github/Python/ Object Oriented programming	Class introduction	More with OOP, methods, and __init__ also git: commits, branches, pull-requests, working as a team, issues	Working with a team in git, end of first git projects
2	Introduction to WPILIB and APIs	Introduction to poses. How are poses recorded, introduction to gyro and angles	Spring Visits How are robots programmed intro to the methods and file structure of common frc robots	Spring Visits Project 1: Programming ROMI to drive and implement one sensor or actuator
3	Introduction to Robot code (Timed Robot)	Class Time for Project 1	Review for Test 1	Test 1
4	Using Encoders and Gyros to update robot position			
5	Subsystems			Midterm
6	Unit Testing			NO CLASS: Long Weekend
7	Command Based Robot	Test 2	Introduction to Command Based Robot	Project 2: Work time
8	Autonomous Command Project 2 and PID Controllers	Project 2 Work time		
9	PID Controllers/Final Project			
10	Final Project			NO CLASS: Prize Day
11	Final Project Presentations	TEE	NO CLASS	NO CLASS