

Course Calendar

Week	Topic	Day 1	Day 2	Day 3
1	Github/Python/Object Oriented programming	Classes introduction	More with OOP, methods, and <code>__init__</code> , 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	Spring Visits 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	Spring Visits Project 1: Programming ROMI to drive
3	Introduction to Robot code (Timed Robot)	Intro Class Time for Project 1: LineFollower	More Time for LineFollower Project	DCMP
4	Using Encoders and Gyros to update robot position	No HW Due Review for Test 1 / Complete LineFollower	Test 1	Intro to the Gyro and Encoders
5	Encoders	Encoders	(WORLDSD)	Midterm (WORLDSD)
6	Gyro	Make up day	Gyro	NO CLASS: Long Weekend
7	Gyro, PID, and Protocols	Protocols, PIDControllers, and Gyro	Gyro Project Day 1	Gyro Project day 2
8	Unit Testing and PID Controllers	Test Review	Test 2	Unit Testing 1

Week	Topic	Day 1	Day 2	Day 3
9	Command Based Robot Autonomous Command Project 2	Unit Testing 2	Command Robot	Final project outline
10	Final Project	Final Project	Final Project	NO CLASS: Prize Day
11	Final Project Presentations	TEE	NO CLASS	NO CLASS