# 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 | | DCMP |
| 4 | Using Encoders and Gyros to update robot position | Review for Test 1 | Test 1 | |
| 5 | Subsystems | | (WORLDS) | **Midterm** (WORLDS) |
| 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 | | |

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|---|---|---|---|---|
| 9 | PID Controllers/Final Project | | | |
| 10 | Final Project | | | **NO CLASS: Prize Day** |
| 11 | Final Project Presentations | **TEE** | **NO CLASS** | **NO CLASS** |