

MRC Schedule - Summer 2016

Week	Monday	Tuesday	Wednesday	Thursday	Friday
1: 7/4	Fourth of July No Class	Introduction SS-DTE Challenge Lecture Slides: lec-w1-intro.pdf	Overview of Tools Lab Orientation Lecture Slides: lec-w1-tools.pdf	Meet in CAVR	Due 1700: Assignment 1: Linux and Git Introduction
2: 7/11	Multi-Robot Overview Reading Due: Distributed Intelligence: Overview of the Field and its Application in Multi-Robot Systems, Lynne E. Parker Preview Assignment 2 Lecture Slides: w2-articlediscuss.pdf	ROS Overview How to use ROS Tutorials Due: Read Programming Robots with ROS (PRR) Chapter 1	Meet in CAVR	Meet in CAVR	Due 1700: Assignment 2: ROS Tutorials Part 1
3: 7/18	Behavior-Based Control Reading Due: Designing and Understanding Adaptive Group Behavior, Maja J. Mataric Review Assignment 2 Preview Assignment 3	ROS: Topics, services, roslaunch, rosbag ROS and MATLAB Programming Robots with ROS Chapters 2, 3 and 4. Lecture Slides: w3-ros.pdf	Meet in CAVR	Meet in CAVR	Due 1700: Assignment 3: ROS Tutorials Part2
4: 7/25	Behavior-Based Control Reading Due: Designing Control Laws for Cooperative Agent Teams, Lynne E. Parker	ROS and MATLAB ROS and Gazebo Simple Waypoint Control Lecture Slides: w4-matlab-ros-control.pdf	Meet in CAVR	Meet in CAVR	Due 1700: Assignment 4
5: 8/1	System-theoretic control Reading Due: Cooperative Control of Robot Formations, Rafael Fierro et al.	From Simulation to Hardware Control Review Single Robot Control Pioneer Checkout Lecture Slides: w5-robothardware.pdf Video: Pioneer waypoint navigation with rviz	Meet in CAVR	Meet in CAVR	Due 1700: Assignment 5
6: 8/8	System-theoretic control Reading Due: Cooperative control of mobile sensor networks: adaptive gradient climbing in a distributed environment, Ogren, Fiorelli and Leonard	Meet in CAVR Wired to Wireless ROS on multiple machines Lecture Slides: w6-wiredwireless.pdf	Meet in CAVR	Meet in CAVR Bingham on Leave	Due 1700: Assignment 6 - POSTPONED - DUE NEXT WEEK
7: 8/15	Applications Reading Due: Multi-AUV control and adaptive sampling in Monterey Bay, E. Fiorelli et al. Bingham on Leave	Meet in CAVR Bingham on Leave	Meet in CAVR Bingham on Leave	Meet in CAVR Bingham on Leave	Due 1700: Assignment 6 Open lap time - Dr. Bingham will be available all day to assist in completing the assignment.

8: 8/22	Applications Reading Due: Collaborative Unmanned Operations for Maritime Security, Peter Drewes and Jerry Franke and Flight and In-Water Experiments of Autonomy and Human Interface Technologies with Multiple Unmanned Systems, M. Steinberg	Toward Localization: GPS and IMU installation and testing. Lecture Slides: w8-towardlocalization.pdf	Meet in CAVR	Meet in CAVR	Due 1700: Assignment 7
9: 8/27	Localization and Detection Review Assignment 7 Preview Assignment 8 Lecture Slides: w9-localizationandddetection.pdf	Meet in CAVR	Meet in CAVR	Meet in CAVR	Due 1700: Assignment 8
9: 9/5	Labor Day No Class	Meet in Classroom Lecture Slides: w10-leaderfollower.pdf	Meet in CAVR	Meet in CAVR	
10: 9/12	Meet in CAVR	Last Day of Class Meet in Classroom Class debrief Lecture Slides: w11-wrapup.pdf			Due: Final Project Report
11: 9/19	Thesis and Research Week				