CS148 Syllabus

Assignments in *italics* are for the LEGO TRACK

Assignments underlined are for the ADVANCED TRACK

Wednesday Saturday Sunday Monday Tuesday Thursday Friday 5 7 9 6 8 10 Lec2: Robotics Lec1: Intro to **Robotics Roadmaps** 11 12 13 14 15 16 17 Lec3: Lab1: Line Autonomous **Control/Robot** Following Learning Intro Lab: Subsumption and Simple Lab1 out Exploration **September:** MCL out 18 19 20 21 22 23 24 Lec4: Lab2: Obstacle MCL due Autonomyous Avoidance and Path Planning **Control contd Subsumption** Lab2 out (sonar) out 25 26 27 28 29 30 OCT 1 Lec5: DEMO **Subsumption** Lab3: Localization (Subsumption) **Odometry** writeup due by and Mapping 10pm MCL and Lab3 out

Fall 2005

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	2	3 <u>Path Planning due</u> <u>Exploration and</u> <u>Coverage out</u>	4 Lec6: Control Theory/ Kinematics <i>Lab4 out</i>	5	6 Lab4: PD Control	7	8
	9	10	11 Lec7: Planning and Roadmaps Path Planning out	12 <i>DEMO (MCL)</i>	13 NO LAB (Yom Kippur)	14 MCL writeup due by 10pm	15 <u>Final Project</u> <u>Proposal Due</u>
ctober:	16	17 <u>Exploration and</u> <u>Coverage Due</u> <u>PD Servo/</u> <u>Robocup out</u>	18 Lec8: Inverse Kinematics, Q&A <i>Lab5 out</i>	19	20 Lab5: Kinematics and Inverse Kinematics	21	22
0	23	24 <u>PD Servo/</u> <u>Robocup due</u> <u>Revised Final</u> <u>Project Proposal</u> <u>Due</u> 31	25 Lec9: Q&A, Multi-Robot Systems <i>Midterm and</i> <i>Lab6 out</i>	26 DEMO (Path Planning)	27 Lab6: Intro to Player Stage Gazebo (PSG)	28 Path Planning writeup due by 10pm	29

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
November:			1 Lec10: Locomotion & Manipulation final project out	2	3 Lec11: Guest Lecture <u>Approved Final</u> <u>Project</u> <u>Proposals due</u>	4	5
	6	7	8 Lec12: Project Discussion rough draft final proposal due by midnight	9	10 Lec13: Advanced Sensing	11	12
	13	14	15 Lec14: Simulation Track project proposals <u>DEMONSTR 1</u>	16	17 Lec15: <i>DEMO</i> (<i>Midterm</i>)	18 final project specs and midterm writeup due by 10pm	19
	20 27	21 28	22 NO CLASS 29 Lec16: Guest Lecture	23 30	24 Thanksgiving	25	26
			DEMONSTR 2				

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1 OPEN CLASS	2	3
er:	4	5	6 OPEN CLASS	7 reading period begins	8	9 <i>FINAL</i> <i>PROJECT</i> <i>DEMOS</i> <u>FINAL</u> <u>PROJECT</u> <u>DEMOS</u>	10
Decemt	11	12 final project writeup due by midnight	13	14	15	16	17