



Class	Day	Date	Topic	Reading	Assignment Due
1-1	M	3/5	Overview, <i>From Teleoperation to Autonomy</i> Lab 1 Recitation – Locomotion and Odometry	Nieumel l	Quiz 1
1-2	T	3/6	<i>The Hierarchical Paradigm</i>	Ch. 1-3	Quiz 2
1-L	R	3/8	Lab 1 Demonstration – Locomotion and Odometry		Lab 1 Report
2-1	M	3/12	<i>Biological Foundations of the Reactive Paradigm</i>	Martin	Quiz 3
2-2	T	3/13	<i>The Reactive Paradigm</i>	CH. 4-5	Quiz 4
2-L	R	3/15	Lab 2 Demonstration – Random Wander, Obstacle Avoidance		Lab 2 Report
<b>FIRST BOILERMAKER REGIONAL, Purdue (3/15/12 - 3/17/12)</b>					
3-1	M	3/19	<i>Feedback Control</i>	Brooks	Quiz 5
3-2	T	3/20	<i>Designing a Reactive Implementation</i>	Ch. 6	Quiz 6
3-L	R	3/22	Lab 3 Demonstration – Wall Following (PD or PI Control)		Lab 3 Report
4-1	M	3/26	<i>Common Sensing Techniques for Reactive Robots</i>	Arkin	Quiz 7
4-2	T	3/27	<i>Common Sensing Techniques for Reactive Robots</i>	Ch. 7	Quiz 8
4-L	R	3/29	Lab 4 Demonstration – Hybrid Control – Homing		Lab 4 Report
<b>SPRING BREAK (3/31/12 - 4/8/12)</b>					
5-1	M	4/4	<i>The Hybrid Deliberative/Reactive Paradigm</i>	Silva	Quiz 9
5-2	T	4/5	<i>The Hybrid Deliberative/Reactive Paradigm</i>	Ch. 9	Quiz 10
5-L	R	4/7	Lab 5 Demonstration - Topological Navigation		Lab 5 Report
6-1	M	4/1	<i>Topological Path Planning</i>	Mataric	Quiz 11
6-2	T	4/12	<i>Metric Path Planning</i>	Ch. 10	Quiz 12
6-L	R	4/14	Lab 6 Demonstration – Path Planning (OG & TP)		Lab 6 Report
7-1	M	4/23	<i>Metric Path Planning</i>	Grabow s	Quiz 13
7-2	T	4/24	<i>Localization and Map Making</i>	Ch. 11	Quiz 14
7-L	R	4/26	Lab 7 Demonstration – Map Making		Lab 7 Report
<b>FIRST CHAMPIONSHIP, ST. Louis, MO (4/25/12-4/28/12)</b>					
8-1	M	4/30	Final Project – Localization		Quiz 15
8-2	T	5/1	Final Project – Localization		
8-L	R	5/3	Final Project – Localization		
9-1	M	5/7	Final Project – Localization		
9-2	T	5/8	Final Project – Localization		
9-L	R	5/10	Final Project – Localization		
10-1	M	5/14	Final Project – Localization		
10-2	T	5/15	Final Project Demonstration		
<b>10-L</b>	<b>R</b>	<b>5/17</b>	<b>Final Project Competition</b>		<b>Final Project Report Due Friday</b>

\*This schedule, topics and assignments may be modified at the discretion of the instructor