<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
</tr>
</thead>
</table>
| Week 1 04/01/11 | Lecture ENGR-103 Course Intro: Robot Soccer Rules and System Overview  
FD Proposal 10% |
| Week 2 04/08/11 | Lecture/Lab  
Homework due 04/15/11 | NXC Programming: Intro (Hello World, Motors and Sensor)  
- Construct Trikebot and Program to move in Figure-8  
- Literature Review: 10 articles on Robocup Mechanisms  
- Web Page Setup: Post proposal, papers and review on-line |
| Week 3 04/15/11 | Lecture/Lab  
Homework due 04/22/11 | NXC Programming: Sensors: Ultrasonic and IR  
- Program Trikebot Solve Maze (turn left algorithm)  
- Mechanism Technical Design Requirements and Trade Study Matrix  
- Mechanism Concept: Passing, Receiving, Kicking, Blocking  
- Literature Review: 10 articles on Robocup Game Strategy |
| Week 4 04/22/11 | Lecture/Lab  
Homework due 04/29/11 | NXC Programming: Working with Overhead Vision System  
- Program Trikebot Move to Ball and Avoid Obstacles  
- Mechanism Demo: Passing, Receiving, Kicking and Blocking  
- Game Strategy Technical Design Requirements and Trade Study Matrix |
| Week 5 04/29/11 | Lecture/Lab  
Homework due 05/06/11 | CAD Design  
ENGR103  
- LEGO Build Instructions for Trikebot (include BOM)  
- Mechanism Integration Demo  
- Progress Report (Work to Date) 10% |
| Week 6 05/06/11 | Lecture  
Homework due 05/13/11 | Game Strategies  
- Game Strategy Demo |
| Week 7 05/13/11 | Demo Game Strategy |
| Week 8 05/20/11 | Practice Competition Day – Oral Presentation Rehearsal |
| Week 9 05/27/11 | Homework  
- Final Report and Oral Presentation Slides  
- Final Webpage (with YouTube Videos of Competition and Practice) |
| Week 10 06/03/11 | ENGR-103 Final Report 30% and Presentation/Demo 15% |