FUEL CELL TECHNOLOGY Tentative Course Schedule, MAE 410/510, Spring 2004

Date	Lec- ture	Text Pages	Topics to be Covered	Homework Assignment	Homework Due Date
1-12-04	1	Chapter 1	Introduction of the Course, Course Conduct and		
		Pages 1-24	Basic Information on Fuel Cell Technology		
1-16-04	2	Ch.2: 25-35, 395- 400	Efficiency and Open Circuit Voltage I	Homework # 1	1-26-04
1-23-04	3	Ch. 2: 35-42	Efficiency and Open Circuit Voltage II		
1-26-04	4	Ch. 3: 45-56	Operational Fuel Cell Voltages I	Homework # 2	2-2-04
1-30-04	5	Ch. 3: 56-66	Operational Fuel Cell Voltages II	Project Statement due	
2-2-04	6	Ch. 4: 67-76	PEM Fuel Cells I	Project Assigned Homework # 3	2-9-04
2-6-04	7	Ch. 4: 76-94	PEM Fuel Cells II		
2-9-04	8	Ch. 4: 90-118	PEM Fuel Cells III	Homework # 4	2-16-04
2-13-04	9	Ch. 5: 121-138	Alkaline Electrolyte Fuel Cells		
2-16-04	10	Ch. 6: 141-160	Direct Methanol Fuel Cells	Homework # 5	2-23-04
2-20-04	11	Ch. 7: 207-226	Solid Oxide Fuel Cells for Delphi Tour		
2-23-04	12	Ch. 7: 164-186	Phosphoric Acid Fuel Cells		
2-27-04			Midterm Exam		
3-1-04	13	Ch. 7: 187-207	Solution to Midterm Exam; Molten Carbonate Fuel Cells	Homework # 6	3-8-04
3-5-04	14	Ch. 7: 207-226	Solid Oxide Fuel Cells		
3-8-04	15	Ch. 8: 229-247	Fuels and Fuel Reforming I	Homework # 7	3-22-04
3-12-04		Ch. 8: 248-278	Fuels and Fuel Reforming II		
3-22-04		Ch. 8: 279-304	Fuels and Fuel Reforming III	Homework # 8	3-29-04
3-26-04	16	Shah & Sekulic, Section 3.3 and 3.4	Heat Exchangers, and Thermal Systems		
3-29-04	17	Ch. 9: 309-321	Balance of Plant I	Homework # 9	4-5-04
4-2-04	18	Ch. 9: 321-330	Balance of Plant II		
4-5-04	19	Ch. 10: 331-348	Delivering Fuel Cell Power I	Homework # 10	4-12-04
4-9-04	20	Ch. 10: 349-367	Delivering Fuel Cell Power II		
4-12-04	21		Project Presentation I	Homework # 11	4-19-04
4-16-04	22		Project Presentation II		1
4-19-04	23	Ch. 11: 369-389	Fuel Cell Systems		
4-23-04					
4-26-04					1
Week of 4/26 or 5/ 3	18		Final Exam		

Note: Read the text material to be covered before coming to the class. It is essential since you will benefit most by first reading the specified material due to a lot of new multidisciplinary concepts.

The last two lectures are kept open in order to allow some flexibility in the proposed lectures. Hence this schedule will be modified as we go along in the semester.