Course Description

1. This course comprises two components:
   i. A lecture component during the scheduled time
   ii. A laboratory component – time to be announced, groups to be created

2. A course syllabus (and approximate time frame) is provided. The course grading scheme is also provided

3. The course predominantly covers proton exchange membrane technology

4. This course has been designed to approach fuel cells from a fundamental, yet practical standpoint – the first portion of the course provides a sound background about the various concepts involved in fuel cell technology – the second portion discusses materials issues - the third and final portion discusses emerging areas and different applications. There is an element of flexibility built into the course that will readily permit shaping it according to the needs and views of the class.

5. Reading assignments (if any) will be provided in class. Materials that are not readily available, but are part of the assigned reading will be photocopied and distributed in advance. An efficient filing system is strongly recommended.

6. Homework will be assigned at regular intervals – unless otherwise stated, the assignment will be due a week from the day it was assigned

7. Examination patterns will be announced shortly

8. After each important concept is covered in class, all students will be given an opportunity to experience the phenomena discussed in the lab – either by performing an experiment or by observing a demonstration – for example, after discussing linear sweep voltammetry, students will be allowed to perform a limiting current experiment using a potentiostat on an operating fuel cell.

9. **Care must be taken at all times while handling all equipment – without exception, they are expensive and delicate!**

10. This course is being offered for the first time – feedback and suggestions are welcome