

ECE 333 – Green Electric Energy Systems, Spring 2020

Instructor	Time	Day	Location	Instructor Office Hours
Andrew Stillwell AndrewRS<AT>illinois.edu	9:30-10:50 AM	T/Th	ECEB 1015	Tuesday 2:00-3:00 pm, ECEB 4054

TA: Theodore Mamalis, mamalis2<at>illinois.edu
TA Office Hours: Wednesday, TBD pm, ECEB TBD

Course Text: Gilbert Masters, *Renewable and Efficient Electric Power Systems*, 2nd Ed., Wiley-IEEE Press, 2013

Topic	Approx. # of Lectures
Introduction and Power Grid Basics	8
Wind Energy Conversion	7
The Solar Resource	4
Solar Energy Conversion	5
Midterm Exam, Exam Reviews, Etc.	4

Class Participation/Homework: Class Participation and Homework (HW) together are worth 20% of the final grade, with and the class participation score worth roughly 5% and the homework score worth roughly 15%. A good strategy to get a high score in this area is to show up to class alert and prepared to participate, and to complete all the homework assignments on time.

- **Class Participation (~5%):** The HW assignments will include reading (textbook and newspaper / web / magazine articles). Approximately 5-10% of total class time will be dedicated to open discussion of the reading. The professor will judge how well you come prepared to discuss and engage in the reading and lecture topics. Obviously, in a large class not everyone will be able to speak during every discussion. However, being engaged includes listening attentively, being awake, and speaking if/when appropriate.
 - Attendance: The professor reserves the right to perform attendance spot checks at any time during the semester. These spot checks will be factored into the Class Participation grade.
- **Homework (~15%):** The HW will be assigned roughly on a weekly basis. You can expect 10-12 HW assignments this semester. To allow students some flexibility, the lowest HW score will be dropped from the HW average used to compute the final grade. Homework assignments are due at the beginning of class on the due date. Late homework will be accepted up to 24 hours late for a 10% penalty. Homework later than 24 hours will not be accepted.

Exams:

Mid-term 1 (80 minutes): Thurs., February 27th (tentative), In-Class (25% of final grade)

Mid-term 2 (24 hours): Thursday, April 9th, Take-home (25% of final grade)

Final Exam (3 hours): Monday, May 11th, Room 1015 ECEB, 7:00-10:00 pm, to be confirmed

The exams will be closed-book, closed-notes. However, you will be allowed a standard calculator and one (1) handwritten note sheet (8.5" x 11", front and back) for Exam 1, two (2) for Exam 2 and three (3) sheets for the Final Exam. No cell phones or other devices with a link to "the outside world" will be allowed.

Final Grade Weights:

HW, class participation	20%
Exam 1	25%
Exam 2	25%
Final exam	30%

Final Grades:

The minimum course grade you will achieve based on your final weighted course percentage is determined by the standard 10-pt scale shown below. I reserve the right to adjust these numbers downward (in student's favor) but they are guaranteed maximums and will not be raised.

Percent	Minimum Grade
97-100	A+
94-96	A
90-93	A-
87-89	B+
84-86	B
80-83	B-
77-79	C+
74-76	C
70-73	C-
67-69	D+
64-66	D
61-63	D-
≤60	F