

Instructor: Xiaohua Li
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Lecture Time: No Lecture, student meets instructor once a week to discuss research progress

Instructor Office Hours: Open Office Policy. MWF, 11:30 a.m.-1:30 p.m. or by appointment

Required Textbook: No required Textbook. Student need to read research publications

Course Description:

3 hours. Student will conduct research on solar thermoelectric battery design, test, evaluation and simulation. Research papers will be assigned for reading. A prototype model will be built, field test will be conducted. Software COMOSOL will be used for simulation. Student will also have to report to the instructor about the research progress once every week. A final report will be submitted and graded.

Prerequisite(s): No Prerequisites

Grades: Final Report 100%

≥ 90%	A
80-89.9%	B
70-79.9%	C
60-69.9%	D
< 60%	F

Disability Accommodations: If you need academic accommodations for disability you must have document which verifies the disability and makes you eligible for accommodations, then you can schedule an appointment with the instructor to make appropriate arrangements.

Academic Dishonesty:

There is a zero tolerance policy. Cheating of whatsoever will result in an automatic 'F' in this course and the matter will be turned over to the appropriate student disciplinary committee.

UNT Official Academic Calendar: Fall 2016

Date	Event
August 29, 2016	First Class Day (Monday)
September 5, 2016	Labor Day (no classes; university closed)
November 24-27, 2016	Thanksgiving Break (no classes; university closed)
December 7-8, 2016	Pre-finals Days
December 8, 2016	Last Class Day
December 9, 2016	Reading Day (no classes)
December 10-15, 2016	Finals
December 24, 2016 - January 1, 2017	Winter Break (no classes; university closed)

MEEN 3996 Honors College Mentored Research Experience
Schedule Overview (Subject to change)

Week	Date	Meeting Topics
#1	Aug.29 th - Sept.2 nd	Discussion on solar thermoelectric battery, research papers assigned.
#2	Sept.5 th – Sept.9 th	Design and Build the prototype of solar thermoelectric battery
#3	Sept.12 th – Sept.16 th	Design and Build the prototype of solar thermoelectric battery
#4	Sept.19 th – Sept.23 rd	Design and Build the prototype of solar thermoelectric battery
#5	Sept.26 th – Sept.30 th	Design and Build the prototype of solar thermoelectric battery
#6	Oct.3 rd – Oct.7 th	Filed Test of solar thermoelectric battery
#7	Oct. 10 ^h – Oct.14 th	Filed Test of solar thermoelectric battery
#8	Oct. 17 th – Oct.21 st	Literature review and research paper reading Simulation in COMSOL of solar thermoelectric battery
#9	Oct. 24 th – Oct.28 th	Literature review and research paper reading Simulation in COMSOL of solar thermoelectric battery
#10	Oct.31 st – Nov.4 th	Simulation in COMSOL of solar thermoelectric battery
#11	Nov.7 th – Nov.11 th	Simulation in COMSOL of solar thermoelectric battery
#12	Nov 14 th – Nov.18 th	Simulation in COMSOL of solar thermoelectric battery
#13	Nov.16 th – Nov.25 th	Simulation in COMSOL of solar thermoelectric battery
#14	Nov.28 th – Dec. 2 nd	Simulation in COMSOL of solar thermoelectric battery
#15	Dec. 5 th – Dec. 9 th	Simulation in COMSOL of solar thermoelectric battery
#16	Dec. 10 th – Dec. 15 th	Final report Due