Energy Systems Technology and Education Center

ESTEC Building Rm 203/101
Time TBA

COURSE SYLLABUS AND CLASS SCHEDULE

Instructor: TBA
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DESCRIPTION:

ESET 0258 Smart Grid Command and Control: 3 semester hours.
Smart Grid is built upon the concept of computerized command and control over a parallel data network to improve efficiency and reliability of electrical power distribution. This course builds understanding of the control network from the generation site to the end appliance in a residential home, including networking theory, efficacy of various radio technologies, protocols, and security issues.

Learning Outcomes

Upon course completion the student will be able to:
1. Explain the fundamental concept of grid controls and system balance
2. Identify and describe the operational requirements of a control area
3. Explain how control protocols and security practices enhance grid reliability

Assessment Method

1. Classroom testing

GRADING & Attendance: A = 96-100; A- = 91-95; B+ = 87-90; B = 83-86; B- = 79-82;
C+ = 75-78; C = 71-74; C- = 67-70; D = 66 and F=60 and below.

You can’t learn if you are not in class. Class means both the classroom and laboratory component of this course. Five class absences could reduce your grade. If you must miss class, make prior arrangements with me to makeup missed class work.

The course is graded on a total points basis.

REASONABLE ACCOMMODATION FOR STUDENTS WITH DISABILITIES:
The Americans with Disabilities Act of 1990 specifies that if you have a diagnosed disability, or believe that you have a disability that might require “reasonable accommodation” on the part of the instructor in this course, you can receive help by contacting the Director, ISU Center of Services for Students with Disabilities; 208-282-3912. It is your responsibility to let the instructor know if you are seeking accommodation for a learning disability (such as extra time to complete exams, note taking help, large print for exams, and so on).