# ECEN 615 – Methods of Electric Power Systems Analysis Fall 2019 TR 12:45 - 2pm ETB 1037

**Instructor:** Prof. Tom Overbye, 308C WEB, overbye@tamu.edu

Office Hours: Mondays 1-3 pm or by appointment

Instructor Website: overbye.engr.tamu.edu

**Course Website:** https://overbye.engr.tamu.edu/course-2/ecen615fa2019/

**Prerequististies:** ECEN 460 or consent of instructor

**Text:** A. J. Wood, B. F. Wollenberg, G. B. Sheble, *Power Generation, Operation and* 

Control, Third Edition, Wiley, 2013, ISBN-13: 978-0471790556

**TA:** Yijing Liu, yiji21@tamu.edu

TA Office Hours: Wednesday 10 to noon in 308N WEB

#### Approx. # of hours **Course Syllabus** Introduction to Power Systems 4 Overview of Power System Modeling and Operation 4 Power Flow 6 Sparse Matrices in Power System Analysis 6 Sensitivity Analysis and Equivalents 6 Power System Data Analytics and Visualization 3 Optimal Power Flow and Power Markets 6 Power System State Estimation 5 High Impact, Low Frequency Events 3 Total 43

<b>Evaluation:</b>	Exam 1	30%
	Exam 2	30%
	Homework, projects	40%

**Tentative Date for Exam 1:** Tueday, October 8, In Class

**Tentative Date for Exam 2:** Thursday, November 21, In Class

**Notesheets for Exams:** All exams are closed-book, closed-notes. You may bring in one notesheet (8.5" by 11"), and may use calculators.

### Grading

All grading in the course is based on a percentage with final grades determined based on this percentage. If your final average falls within the below ranges you are guaranteed to receive at least the letter grad indicated: A: 90-100; B: 80-89; C: 70-79; D: 60-69; F: 59 or lower

### **Americans with Disabilities Act (ADA)**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, currently located in the Disability Services building at the Student Services at White Creek complex on west campus or call 979-845-1637. For additional information, visit <a href="http://disability.tamu.edu">http://disability.tamu.edu</a>.

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