## **EE303**

## **Energy Systems and Power Electronics**

TU, TH 8:00 am-9:15 am Durham 0171

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Office Hours: Tuesday 3:00-4:00 pm, or by email

appointment

## **Tentative** Course Schedule:

Week	Class Dates	Class Topic
1	August 23	Introduction to energy systems
	August 25	Energy, power and environment
2	August 30	Introduction to power basics
	September 1	Introduction to power basics
3	September 6	Solar and Wind Energy
	September 8	Solar and Wind Energy
4	September 13	Three-phase analysis
	September 15	Three-phase analysis
5	September 20	Three-phase analysis
	September 22	Three-phase analysis
6	September 27	Transformers and Per Unit Analysis
	September 29	Transformers and Per Unit Analysis
7	October 4	Transformers and Per Unit Analysis
	October 6	Transformers and Per Unit Analysis
8	October 11	Review
	October 13	Midterm
9	October 18	Network Matrix
	October 20	Power flow analysis
10	October 25	Power flow analysis
	October 27	Power flow analysis

11	November 1	Power flow analysis
	November 3	Power electronics
12	November 8	Power electronics
	November 10	Power electronics
13	November 15	Power electronics
	November 17	Electric Machines
14	November 22	Thanksgiving Break
	November 24	Thanksgiving Break
15	November 29	Electric Machines
	December 1	Electric Machines
16	December 6	Review and examples
	December 8	Review and examples
Final	December 12 - 15	Final Exams