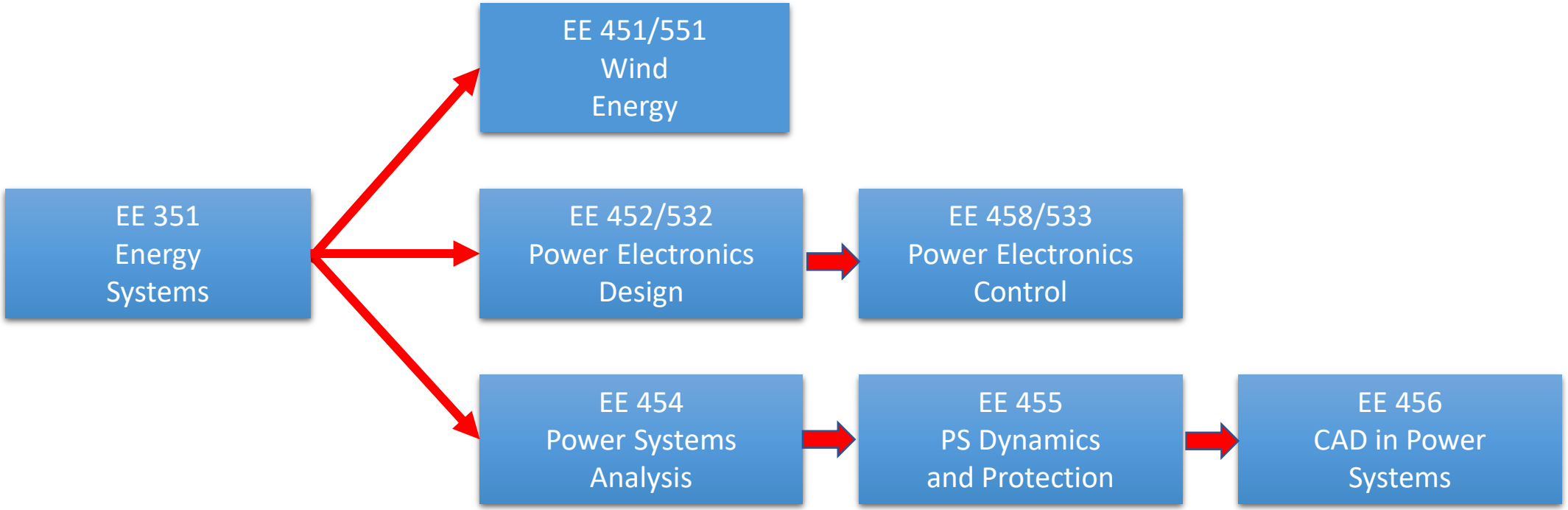
Energy Group ABET Review

Spring 2024

Daniel Kirschen

ELECTRICAL & COMPUTER ENGINEERING


EE 351
Energy
Systems
EE 451/551
Wind
Energy
EE 452/532
Power Electronics
Design
EE 458/533
Power Electronics
Control
EE 454
Power Systems
Analysis
EE 455
PS Dynamics
and Protection
EE 456
CAD in Power
Systems

Enrollment

		Aut23	Win24	Spr24	Aut24	Win25	Spr25
351	Energy Systems			66			72
451/551	Wind Energy			6/16		13/7	
452/532	Power Electronics Design	25/14			33/15		
454	Power System Analysis	25			31		
455	Power System Dynamics and Protection		25			21	
458/533	Power Electronics Controls		4/11			12/11	
456	CAD in Power Systems						11

Course Evaluations

Course	Instr.	Qtr.	Participation	Adj. Combined	CEI	Hours/Cr
351	Zhang	Spr 24	14/66	4.7	4.8	2.2
451/551	Lukuyu	Win 25	17/20	4.4	4.2	1.7
452/532	Choi	Aut 24	36/48	3.9	5.4	1.9
454	Lukuyu	Aut 24	20/30	3.3	4.8	2.3
455	Kirschen	Win 25	7/19	4.5	4.1	2
458/533	Choi	Win 25	13/23	3.3	6.2	3.1

Missing End-of-Course Reports

- EE458 Winter 2025 Choi

ABET Outcomes

Course	Title	Quarter Assessed	1	2	3	5	6	7
451	Wind Energy (Lukuyu)	Winter 2025	0/0/3/0		0/0/3/0			0/1/2/0
452	Power Electronics Design (Choi)	Autumn 2024			0/0/3/0	0/1/2/0	0/1/2/0	
454	Power System Analysis (Lukuyu)	Autumn 2024	0/2/1/0					
455	Power System Dynamics and Protection (Kirschen)	Winter 2025	0/1/2/0	0/1/1/1				
458	Power Electronics Controls (Choi)	Winter 2025						

Comments

- New syllabus and title for EE451: wind energy → renewable energy
- Demand for these courses remains strong
- Revived EE456 in Spring 2025 gives students opportunity to practice with commercial-grade power system analysis software
- Won’t be able to offer it next year
- Separate the undergraduate and graduate classes 458/533