

## Electrical Engineering: Power Engineering 2024-2025 (Class of 2028)

Fall First Year		
CHY 121   CHY 131	Chemistry	3
CHY 123   CHY 133	Chemistry Lab	1
CMJ 103	Fund of Public Communication Human Values/Social Context	3
ECE 100	ELE & CEN Eng Seminar	1
ECE 101	Intro to ELE & CEN Eng	3
MAT 126	Calculus I	4
		15

Spring First Year		
ECE 177	Intro to Prog for Engineers	4
ENG 101	College Composition	3
MAT 127	Calculus II	4
PHY 121	Physics for Engineers I	4
		15

Fall Sophomore				
ECE 210	Electric Circuits I	3		
ECE 271	Micro Arch & Applications	4		
Elective	HV & SC (1) - Western Cultural Tradition	3		
MAT 228	Calculus III	4		
PHY 122	Physics for Engineers II	4		
		18		
Spring Sophomore				
ECE 214	Electric Circuits II	4		
ECE 275	Sequential Logic Systems	3		
EET 321	Electro-Mechanical Energy Conversion	4		
MAT 258	Diff Eqn. & Linear Algebra	4		
		15		
Fall Junior				
ECE 316	STS 332	Random Signal Analysis	Statistics	3
ECE 342	Electronics I	4		
ECE 314	Signals and Systems	3		
ECE 427	Electric Power Systems	4		
EET 460	Renewable Energy and Electricity Production	3		
		17		
Spring Junior				
ECE 343	Electronics II	4		
ECE 401	Design Project	2		
ECE 414	Feedback Control Systems	3		
ECE 351	Fields and Waves	3		
ECE xxx	Suggest: Adv Controls, Cybersecurity, ...	3		
		15		
Fall Senior				
ECE 402	Design Project II	4		
ECE 450	Power Electronics	3		
ECE 428	Smart Grid and Enabling Technologies	3		
Elective	HV & SC (4) Artistic & Creative Expression	3		
Elective	HV & SC (3) Cultural Diversity & International Perspectives	3		
		16		
Spring Senior				
ECE 403	Design Project III	2		
ECE 486	Digital Signal Processing	4		
ECE 455	Electric Drives	3		
Elective	HV & SC (5) Ethics	3		
EET 423	Protective Relay Applications	3		
		15		
Total Credit Hours		126		

Suggested Electives for Power Engineering		
ECE	Electrical Focus Tech Elective	ECE 427 Electric Power Systems 4
Math & Science	Electrical Focus Tech Elective	ECE 428 Smart Grid and Enabling Technologies 3
English	Electrical Focus Tech Elective	ECE 450 Power Electronics 3
Gen Ed	ECE Tech Elective	ECE 455 Electric Drives 3
	ECE Tech Elective	ECE xxx Suggest: Adv Controls, Cybersecurity, Neural Networks ... 3
	Generic Focus Tech Elective	EET 321 Electro-Mechanical Energy Conversion 4
	Generic Focus Tech Elective	EET 423 Protective Relay Applications 3
	HV & SC (2) Population and Environment Elective	EET 460 Renewable Energy and Electricity Production