

## Program of Studies Power Systems & Sustainable Energy

(Enrichment Experience)

Name:	Student SCU #		
	First Last		
<u>mail</u> :	Advisor's Name: M. Khanbaghi Expected Graduation Dat	<u>:e:</u>	
POS VE B.S. De	RSION (CHECK ONE):    NEW		
l. Rec	quirements:		
	<u>Foundational Courses</u>	<u>Units</u>	<u>Grade</u>
	- ELEN 280/MECH 287 Alternative Energy Systems (2 units)	2	
	- ELEN 281A Power System: Generation and Transmission (2 units)	2	
	- ELEN 281B Power Systems: Distribution (2 units)	2	
	- ELEN 285 Introduction to the Smart Grid (2 units)	2	
	Graduate Core Courses		
	- EMGT 380 Introduction to Systems Engineering Management (2 units)	2	
	EMGT 255 Accounting & Cost Control for Project Managers (2 units)	3/2	
	- ENGR 272 Energy Public Policy (2 units)	2	
	- ENGR 273 Sustainable Energy & Ethics (2 units) <b>OR</b>	_	
	ENGR 344 Artificial Intelligence and Ethics (2 units)	2	
	Applied Math Courses		
	- AMTH 245 Linear Algebra I (2 units)	2	
	- AMTH 246 Linear Algebra II (2 units)	2	
	- 4 units in AMTH, to be selected in consultation with academic advisor	4	
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2. Specialization Core: Select One Track

Mechanical Engineering	<u>Units</u>	<u>Grade</u>
- ELEN 231 Power System Stability & Control (4 units)	4	
- ELEN 287/ENGR 339 Energy Storage Systems (2 units)	2	
- MECH 228 Equilibrium Thermodynamics (2 units) <b>OR</b>	2	
MECH 230 Statistical Thermodynamics (2 units)	2	
- MECH 288 Energy Conversion I (2 units)	2	
Electrical Engineering		
- ELEN 231 Power System Stability & Control (4 units)	4	
- ELEN 287/ENGR 339 Energy Storage Systems (2 units)	2	
- ELEN 288 Energy Mgmt (2 units) <b>OR</b>	2	
ELEN 236 Linear Control Systems (2 units)	2	
- ELEN 353 DC to DC Power Conversion (2 units)	2	
Computer Engineering		
- COEN 242 Big Data (4 units) <b>OR</b>	4	
COEN 240 Machine Learning (4 units)	4	
- COEN 243 Internet of Things (4 units)	4	
- COEN 266 Artificial Intelligence (4 units)	4	
<u>Civil Engineering</u>		
- CENG 217 Sustainable Infrastructure for Developing Countries (4 units) <b>OR</b>	4	
CENG 288 Emerging Decision and Risk Analysis (4 units)	4	
- CENG 219 Designing for Sustainable Construction (4 units)	4	
- CENG 249 Civil Systems Engineering (4 units)	4	

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