

**Degree Checklist-Bachelor of Science in Integrated Energy Management
Integrated Power Systems Specialization**

Student Name _____

Foundational Courses Credits: 24 credits

Course	Title	Credits	Quarter / Year Completed
GEOG 107	Our Dynamic Earth	5	
IEM 201	Introduction to Energy Management	5	
ECON 201	Principles of Economics Micro	5	
GEOG 250	Resource Exploitation and Conservation	4	
Subtotal		19	

Select one from the following courses for 5 credits:

Course	Title	Credits	Quarter / Year Completed
ECON 130	Foundations for Business Analytics	5	
MATH 130	Finite Mathematics	5	
MATH 153	Pre-Calculus Mathematics I	5	
MATH 154	Pre-Calculus Mathematics II	5	
MATH 170	Intuitive Calculus	5	
MATH 172	Calculus	5	
Subtotal		5	

Core Courses Credits: 32-34 credits

Course	Title	Credits	Quarter / Year Completed
IEM 302	Energy, Environment, and Climate Change	5	
IEM 330	Geopolitics of Fossil Fuels	5	
GEOG 301	Introduction to GIS and Maps	4	
GEOG 442	Alternative Energy	5	
ECON 463	Energy Economics	4	
IEM 489	Integrated Energy Management Capstone	2	
Subtotal		25	

Select one from the following Methods courses for 5 credits:

Course	Title	Credits	Quarter / Year Completed
BUS 221	Introductory Business Statistics	5	
MATH 211	Statistical Concepts and Methods	5	
GEOG 406	Qualitative Methods in Geography	5	
Subtotal		5	

Select one from the following Communication courses for 2-4 credits:

Course	Title	Credits	Quarter / Year Completed
ADMG 385	Business Communications and Report Writing	4	
COM 301	Public Speaking for Business and Organizations	2	
COM 345	Business and Professional Speaking	4	
ENGL 310	Technical Writing	4	
Subtotal		2-4	

Required Courses - Integrated Power Systems Specialization: 17-19 credits

Course	Title	Credits	Quarter / Year Completed
ETSC 101	Modern Technology and Energy	5	
ETSC 160	Computer-Aided Design and Drafting	5	
OR ETSC 161	Architectural Computer Aided Design	3	
ETSC 301	Engineering Project Cost Analysis	4	
POSC 325	Introduction to Public Policy	5	
Subtotal		17-19	

Department-Approved Electives Credits: 18-20

Select from the following:

Course	Title	Credits	Quarter / Year Completed
CMGT 245	Light Commercial Construction	5	
CMGT 265	Construction Documents	3	
CMGT 320	Electrical Systems	3	
CMGT 452	LEED in Sustainable Construction	4	
EET 221	Basic Electricity	3	
EET 332	Electrical Machines	4	
EET 426	Advanced Electrical Networks	4	
EET 433	Transmission and Distribution of Electrical Power	4	
ETSC 380	Quality Control	4	
ETSC 455	Engineering Project Management	4	
ETSC 385	Product Design and Development	4	
ETSC 389	Technical Presentations	3	
IT 258	Spreadsheet Applications	3	
SHM 301	Fundamentals of Safety and Health Management	3	
SHM 325	General Industry Safety and Health	3	
SHM 351	Incident Analysis	3	
SHM 353	Risk and Insurance	4	
SHM 377	Hazardous Materials Management	4	
SHM 477	Environmental Management	4	
Subtotal		18-20	

OR

Course	Title	Credits	Quarter / Year Completed
IEM 290	Cooperative Education	1-10	
IEM 490	Cooperative Education	1-12	
Subtotal		18-20	

Total Specialization Credits	35-39	
Total Credits:	91-97	