

BACHELOR DEGREE IN INTEGRATED ENERGY MANAGEMENT @CWU

INTEGRATED POWER SYSTEMS SPECIALIZATION

Power Systems provides courses that train students in topics related to energy technologies, physical understandings of power systems, and the environmental implications of energy production, distribution, and consumption.

Integrated Energy Management Foundational Courses– 28 Credit Hours Credits

ECON 201 Principles of Economics Micro	5
GEOG 250 – Resource Exploitation and Conservation	4
GEOG 107 – Our Dynamic Earth	5
GEOG 203 - Introduction to Maps and Cartography	4

Course Description Credits

Select one from the following:

ECON 130 - Foundations for Business Analytics	5
MATH 130 - Finite Mathematics	5

AND

Select one from the following:

MATH 153 - Pre-calculus Mathematics I	5
MATH 154 - Pre-calculus Mathematics II	5
MATH 170 - Intuitive Calculus	5
MATH 172 - Calculus I	5

Integrated Energy Management Core Courses– 38-39 Credit Hours

	<u>Credits</u>
ECON 463 - Energy Economics	5
GEOG 440 – Ecology and Culture	4
ENST 310 - Energy and Society	5
GEOG 303 - Introductory GIS	5
IEM 301- Energy Management	5
GEOG 442 - Alternative Energy Resources and Technologies	5

Choose one methods and one communication course

- Methods (select one from the following list of courses)

	<u>Credit</u>
BUS 221 - Introductory Business Statistics	5
MATH 311 - Statistical Concepts and Methods	5
PSY 362 - Introductory Statistics	5

AND

- Communications (select one from the following list of courses)

	<u>Credit</u>
ADMG 385 - Business Communications and Report Writing	5
COM 345 - Business and Professional Speaking	4
ENG 310 - Technical Writing	4

Turn this page over to view required and elective classes for the Power Systems Specialization →

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	<u>Credits</u>
Power Systems Specialization <u>Required</u> Courses	18
IET 101 - Modern Technology and Energy	5
IET 160 - Computer-aided Design and Drafting -OR-	4
IET 161 - Architectural Computer Aided Design	4
IET 301 - Engineering Project Cost Analysis	4
PHY 106 – Physics	5

Power Systems Specialization <u>Electives</u>	20
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Select between 18 and 20 credits from the following courses:

IT 258 - Spreadsheet app OR IT 268 - Database app	3
CMGT 245 - Light Commercial Construction	5
CMGT 265 - Blueprint Reading and Construction Graphics	4
CMGT 320 - Electrical Systems Design	3
CMGT 452 - LEED in Sustainable Construction	4
EET 221 - Basic Electricity	5
EET 324 - Advanced Electrical Network	4
EET 332 - Generation of Electrical Power	4
EET 432/433 - Transmission and Distribution of Electrical Power	4
ETSC 380 - Quality Control	4
ETSC 455 - Engineering Project Management	4
IET 385 - Product Design and Development	4
IET 389 - Technical Presentations	3
SHM 301 - Fundamentals of Safety and Health Management	3
SHM 325 - Manufacturing 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
IEM 290 - Cooperative Education	1 – 10
IEM 490 - Cooperative Education	1 – 12
TOTAL CREDITS	97-100



A BACHELORS DEGREE PROGRAM DEVELOPED BY COMPANIES FOCUSED ON UNDERSTANDING THE TRANSITION OF ENERGY LANDSCAPES, TRADITIONAL AND RENEWABLE, THROUGH AN INTERDISCIPLINARY LENS; AND ARMING STUDENTS WITH THE SKILL SET TO MEET THE DEMAND FOR QUALIFIED WORKERS SERVING THE BUSINESS AND MANAGEMENT SIDE OF PUBLIC AND PRIVATE ORGANIZATIONS IN THE ENERGY SECTOR

ACCEPTING PRE-MAJORS/MAJORS FOR FALL 2015