

BACHELOR DEGREE IN INTEGRATED ENERGY MANAGEMENT @CWU

INTEGRATED ENERGY POLICY SPECIALIZATION – AY 2016/17

Integrated Energy Policy specializes in training students in Geographic Information Systems (GIS), planning, and policy analysis as it relates to energy production, distribution and consumption with particular attention to the environment.

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 301 – Introduction to GIS and Maps	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– 39-40 Credit Hours Credits

ECON 463 - Energy Economics	5
IEM 301- Energy Management	5
IEM 302 – Energy, Environment, & Climate Change	4
IEM 310 – Inquiry Science in Energy Management	5
IEM 330 – Geopolitics of Fossil Fuels	4
GEOG 442 - Alternative Energy	5
IEM 489 – Integrated Energy Management Capstone	2

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 Policy Specialization ➔

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	<u>Credits</u>
Energy Policy Specialization <u>Required</u> Courses	17
ECON 462 - Environmental and Resource Economics	5
GEOG 443 - Energy Policy	5
GEOG 445 – Environmental Law	4
POSC 325 - Introduction to Public Policy	3
Energy Policy Specialization <u>Electives</u>	18-20
<i>Select between 18 and 20 credits from the following courses:</i>	
BUS 241 - Legal Environment of Business	5
BUS 441 - Advanced Business Law	5
ECON 325 - Introduction to Forecasting	5
ECON 332 - Public Finance	5
ECON 356 - Government and Business	5
ECON 401 - Intermediate Microeconomic Analysis	5
ECON 424 - Introduction to Econometrics	5
ECON 426 - Economic Research	5
GEOG 303 - GIS and Data Management	5
GEOG 306 - Transportation Geography and Planning	4
GEOG 409 - Quantitative Methods in Geography	5
GEOG 311 - Qualitative Methods in Geography	4
GEOG 330 - Airphoto Interpretation	5
GEOG 404 – GIS Analysis	5
GEOG 405 - Advanced Topics in Land Use Planning	3
GEOG 413 - Computer Cartography	4
GEOG 417 - Advanced GIS	4
GEOG 440 – Ecology and Culture	4
GEOG 448 - Geographic Approaches to Environmental Resource Analysis	5
GEOG/GEOL 430 - Remote Sensing	5
GEOL 210 - Introduction to Geologic Field Methods	4
GEOL 382 - Earth Resources and Pollution	4
GEOL 434 - Petroleum Geology	5
POSC 350 – Introduction to Public Law	5
IEM 290 - Cooperative Education AND	1 - 10
IEM 490 - Cooperative Education (by permission)	1 - 12
TOTAL CREDITS	102-105



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 2016