

B.S. IN INTEGRATED ENERGY MANAGEMENT

Integrated Energy Management at CWU is a four-year Bachelor of Science degree program developed in collaboration with energy industry employers in order to understand the transition of energy landscapes, from traditional to renewable, through an interdisciplinary lens. Through this innovative new interdisciplinary program that focuses on hands-on learning and community-based research experiences, our students graduate with the valuable skills and experience they need to shape the future of energy via exciting new career opportunities.

INTEGRATED ENERGY MANAGEMENT CORE CLASSES

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

Select one from the following:

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

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

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)

BUS 221 - Introductory Business Statistics	5
MATH 311 - Statistical Concepts and Methods	5
PSY 362 - Introductory Statistics	5

Communications (select one from the following list of courses)

ADMG 385 - Business Communications and Report Writing	5
COM 345 - Business and Professional Speaking	4
ENG 310 - Technical Writing	4



SPECIALIZATION IN INTEGRATED ENERGY POLICY

CHOOSE THIS TRACK IF:

You want a seat at the decision-making table. You're an analytical thinker and a problem solver at heart. You're a team player who wants to work together to meet the challenges of a sustainable energy future head-on.

POTENTIAL JOB TITLES:

Policy Analyst, Energy Forecaster, GIS Energy Planner

INTEGRATED ENERGY POLICY COURSES

Energy Policy Specialization Required Courses *17 Credit Hours*

	Credits
ECON 462 - Environmental and Resource Economics	5
GEOG 443 - Energy Policy	5
GEOG 445 - Natural Resources Policy	4
POSC 325 - Introduction to Public Policy	3
Energy Policy Specialization Electives	18- 20

Policy Specialization Electives

Select between 18 and 20 credits from the following courses:

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 305 - Introduction to Land Use Planning	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 - Intermediate GIS	5
GEOG 405 - Advanced Topics in Land Use Planning	3
GEOG 413 - Computer Cartography	4
GEOG 417 - Advanced GIS	4
GEOG 444 - Mineral Resources	4
GEOG 448 - Geographic Approaches to Environmental Resource Analysis	4
GEOG/GEOL 430 - Remote Sensing	5
GEOL 210 - Introduction to Geologic Field Methods	4
GEOL 382 - Earth Resources and Pollution	5
GEOL 434 - Petroleum Geology	5
POSC 350 - Introduction to Public Law	5
IEM 290 - Cooperative Education AND	1 - 10
IEM 490 - Cooperative Education (<i>by permission</i>)	1 - 12

TOTAL CREDITS 96-99