

# GLOBAL ENERGY MANAGEMENT, MS

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## Faculty

### Professors/Instructors

**Andy Bertsch**, D.B.A.  
**Jenny Bredt**, MS  
**Ralph Cantafio**, J.D., MS  
**Janie Chermak**, Ph.D.  
**Jill Engel-Cox**, Ph.D.  
**Chris Hansen**, Ph.D.  
**Gary Hapken**, CPA, MBA  
**Maen M. Husein**, Ph.D.  
**Brent Mattson**, Ph.D.  
**Farhana Morales**, MA  
**Michael Orlando**, Ph.D.  
**Deb Ryan**, MBA  
**Johanna Schmidtke**, Ph.D.  
**Steven Seay**, Ph.D.  
**Melissa Wood**, MBA

## Introduction

The Master of Science in Global Energy Management (GEM) prepares individuals for leadership careers in the energy industry. This degree is particularly appropriate for individuals seeking to advance their existing careers in the energy field. Prior work experience within the field is preferred, but not required.

## Program Requirements

The program consists of two components: the core curriculum and the more specialized required courses. The MS GEM program requires the completion of the following core classes as well as three required courses from the selection listed below. The required courses are

Code	Title	Hours
<b>Core Courses</b>		
GEMM 6000	21st Century Global Energy Issues and Realities	3
GEMM 6100	Global Energy Economics	3
GEMM 6200	Environmental, Regulatory, Legal & Political Environment in the Energy Industry	3
GEMM 6300	Technical Aspects of Energy Science	3
GEMM 6400	Leadership and Decision Making in the Global Energy Environment	3
GEMM 6410	People Management in the Global Energy Environment	3
GEMM 6450	Strategic Management of the Energy Industry	3
GEMM 6500	Energy Accounting in the Global Markets	3
GEMM 6600	Introduction To Financial Management In The Energy Industry	3
<b>Required Courses</b>		
Select three of the following: <sup>1</sup>		9

GEMM 6240	Environmental, Social, Governance (ESG) Trends in Energy & Commodities	
GEMM 6630	Project Development, Management and Leadership in Renewable Energy	
GEMM 6699	International Special Topics	
GEMM 6710	Carbon Markets: Navigating the Future of Business	3
<b>Total Hours</b>		<b>39</b>

## Notes and Restrictions

The Global Energy Management (GEM) program is a cohort group, online, 18-month Master of Science degree program. As a cohort program, all students start together, progress together, and graduate together. It is not recommended for students to take time out of the program once it starts, and students should plan on remaining in the program for the full 18 months. However, we do want to be flexible, and if it becomes necessary to take a term off, students should contact the program advisor to discuss options.

In addition to graduate courses, the GEM program has an on-campus requirement. Students must attend two Residency Weekends prior to graduating with the MS degree. The Residency Weekends are two days, Friday and Saturday, that focus on industry seminars, site tours, professional development, and networking opportunities.

Please note that the GEM degree program runs on a completely separate schedule from the normal semester terms of the Business School. Please check the Global Energy Management website (<http://www.ucdenver.edu/academics/colleges/business/degrees/ms/gem/Pages/Overview.aspx>) for the course schedule. All GEMM courses are restricted to those students who have been admitted to the MS GEM program. With program advisor approval, students in other programs and colleges at the University of Colorado Denver can take GEMM courses.

## Dual Degrees

In order to participate in the dual degree options offered by the Business School, students in the GEM program must first complete their entire GEM degree before they can begin their second degree.

## Student Learning Outcomes

### MS Global Energy Management

#### Value 1: Business Acumen

Outcome: Demonstrate cross-functional business acumen sufficient to enable effective market and situation analysis, problem-solving, decision-making, and resource allocation to achieve expected results at both business unit (tactical) and enterprise (strategic) levels.

#### Value 2: Lead and Manage People

Outcome: Demonstrate the ability to lead and manage geographically and culturally diverse people and organizations at both business unit (tactical) and enterprise (strategic) levels.

#### Value 3: Energy Industry Expertise

Outcome: Demonstrate a comprehensive understanding of the worldwide energy marketplace and the information, methods, and strategies used by strategic decision-makers in the energy industry.

#### Value 4: Executive Presence

Outcome: Demonstrate a growing executive presence based on confidence, credibility, demeanor, communication, ethics, and personal brand.

*These objectives are assessed in relevant courses across the curriculum using projects, presentations, assignments and exam questions.*