MASTER OF MANAGEMENT IN ENERGY, MME

Overview

The Master of Management in Energy (MME) program is designed for college graduates with quantitative backgrounds who are seeking specialized industry knowledge in preparation for fast-track careers in energy. The program is STEM-designated.

In this 36 credit-hour program, students acquire the knowledge and skills needed to hit the ground running at traditional and renewable energy companies, utilities, banks, financial services and consulting firms, trading organizations, ISOs and regulatory agencies.

The MME program begins in the summer and can be completed the following May or December, depending on your prior academic background and your desire to complete a summer internship. The program provides an introduction to the energy industry and focuses on sharpening computing and financial modeling skills. It strengthens core quantitative skills while broadening your perspective on the energy industry. Advanced energy courses emphasize practical experience and job-ready skills.

Requirements

Curriculum

The specialized curriculum in the Master of Management in Energy program was crafted by a team of faculty members with input from employers about the skills they want students to possess. Students gain a complete understanding of both traditional and renewable energy sources. Courses provide marketable, technical expertise in everything from structure and valuation to financial modeling and risk management, ensuring that students stand out in the job market.

May Graduation Option

Course ID	Title	Credits
Summer Term (6 credit hours)		
ACCN 6030	Financial Reporting I	3
ENRG 7000	Introduction to Energy Markets and Policy	3
Fall Term (15 credit hours)		
CDMA 6030	Advanced Career Development and Management	0
ENRG 7120	Energy Data Analysis	3
ENRG 7200	Energy Fundamentals & Trading	3
Electives - Choose 9 credit hours from the following:		9
ENRG 7110	Energy Modeling	
ENRG 7730	Energy Investment Banking	
ENRG 7860	Renewable Energy Project Development & Finance	
FINE 7140	Venture Capital & Private Equity	
FINE 7370	Algorithmic Trading and Quantitative Strategies	
MGMT 7210	Management of Technology and Innovation	
MGSC 7100	SQL Database Fundamentals and Business Intelligence	
MGSC 7310	Modeling and Analytics	
Spring Term (15 credit hours)		
ENRG 7130	Energy & Environmental Economics	3
ENRG 7500	Energy Risk Management	3
ENRG 7840	Energy Industry Projects	3
Electives - Choose 6 credit hours from the following:		6
ACCN 7290	Accounting Analytics	
ENRG 7110	Energy Modeling	
ENRG 7150	Electric Vehicles and the Supply Chain	
ENRG 7610	Energy Trading: Wholesale Electric Markets	
ENRG 7730	Energy Investment Banking	
ENRG 7830	Energy Regulation	
ENRG 7850	Renewable & Electric Power Markets	
FINE 7140	Venture Capital & Private Equity	

FINE 7380	Climate Change, ESG, and Financial Markets	
FINE 7510	Econometrics and Forecasting	
FINE 7530	Burkenroad Reports for Financial Analysts	
FINE 7660	Financial Risk Management	
MGMT 6160	New Venture Planning	
MGMT 7180	Innovation and Technology Commercialization	
MGMT 7210	Management of Technology and Innovation	
MGSC 7320	Advanced Spreadsheet Modeling	
MKTG 7280	Data and Analysis for Marketing Decisions	
Total Credit Hours		**36**

December Graduation Option

Course ID	Title	Credits
Summer Term (6 credit hours)		
ACCN 6030	Financial Reporting I	3
ENRG 7000	Introduction to Energy Markets and Policy	3
Fall Term (9-12 credit hours)		
CDMA 6030	Advanced Career Development and Management	0
ENRG 7120	Energy Data Analysis	3
ENRG 7200	Energy Fundamentals & Trading	3
Electives - Choose 3-6 credit hours from the following:		3-6
ENRG 7110	Energy Modeling	
ENRG 7730	Energy Investment Banking	
ENRG 7860	Renewable Energy Project Development & Finance	
FINE 7140	Venture Capital & Private Equity	
FINE 7370	Algorithmic Trading and Quantitative Strategies	
MGMT 7210	Management of Technology and Innovation	
MGSC 7100	SQL Database Fundamentals and Business Intelligence	
MGSC 7310	Modeling and Analytics	
Spring Term (9-12 credit hours)		
ENRG 7130	Energy & Environmental Economics	3
ENRG 7500	Energy Risk Management	3
ENRG 7840	Energy Industry Projects	3
Electives - Choose 0-3 credit hours from the following:		0-3
ACCN 7290	Accounting Analytics	
ENRG 7110	Energy Modeling	
ENRG 7150	Electric Vehicles and the Supply Chain	
ENRG 7610	Energy Trading: Wholesale Electric Markets	
ENRG 7730	Energy Investment Banking	
ENRG 7830	Energy Regulation	
ENRG 7850	Renewable & Electric Power Markets	
FINE 7140	Venture Capital & Private Equity	
FINE 7380	Climate Change, ESG, and Financial Markets	
FINE 7510	Econometrics and Forecasting	
FINE 7530	Burkenroad Reports for Financial Analysts	
FINE 7660	Financial Risk Management	
MGMT 6160	New Venture Planning	
MGMT 7180	Innovation and Technology Commercialization	
MGMT 7210	Management of Technology and Innovation	
MGSC 7320	Advanced Spreadsheet Modeling	
MKTG 7280	Data and Analysis for Marketing Decisions	

Summer Term (0 credit hours)		
Internship encouraged		0
Fall Term (6-12 credit hours)		
Electives - Choose 6-12 credit hours from the following:		6-12
ENRG 7110	Energy Modeling	
ENRG 7730	Energy Investment Banking	
ENRG 7860	Renewable Energy Project Development & Finance	
FINE 7140	Venture Capital & Private Equity	
FINE 7370	Algorithmic Trading and Quantitative Strategies	
FINE 7530	Burkenroad Reports for Financial Analysts	
MGMT 7210	Management of Technology and Innovation	
MGSC 7100	SQL Database Fundamentals and Business Intelligence	
MGSC 7310	Modeling and Analytics	
Total Credit Hours		**36**

Specializations

To develop a coherent program of study within the elective set, MME students have the option to pursue one of six specializations, although no specialization is required to earn the MME degree. No more than one specialization may appear on the final transcript.

Analytics

Course ID	Title	Credits
MGSC 7310	Modeling and Analytics	3
MGSC 7320	Advanced Spreadsheet Modeling	3
And one of the following:		3
FINE 7510	Econometrics and Forecasting	
MGSC 7100	SQL Database Fundamentals and Business Intelligence [1]	
Total Credit Hours		**9**

1 Or other approved graduate-level MGSC course.

Banking and Finance

Course ID	Title	Credits
ENRG 7110	Energy Modeling	3
and two of the following:		6
ENRG 7730	Energy Investment Banking	
FINE 7140	Venture Capital & Private Equity [1]	
FINE 7530	Burkenroad Reports for Financial Analysts [1, 2]	
Total Credit Hours		**9**

1 Or other approved graduate-level FINE course.
2 Students must apply for enrollment in this course.

Electric Power

Course ID	Title	Credits
ENRG 7610	Energy Trading: Wholesale Electric Markets [1]	3
ENRG 7850	Renewable & Electric Power Markets [1]	3
FINE 7510	Econometrics and Forecasting	3
Total Credit Hours		**9**

1 Or other approved graduate-level ENRG course focused on electricity and power.

Energy Trading and Risk Management

Course ID	Title	Credits
ENRG 7610	Energy Trading: Wholesale Electric Markets	3
And two of the following:		6
FINE 7370	Algorithmic Trading and Quantitative Strategies	
FINE 7510	Econometrics and Forecasting	
FINE 7660	Financial Risk Management	
Total Credit Hours		**9**

Entrepreneurship

Course ID	Title	Credits
FINE 7140	Venture Capital & Private Equity	3
And two of the following:		6
MGMT 6160	New Venture Planning	
MGMT 7180	Innovation and Technology Commercialization	
MGMT 7210	Management of Technology and Innovation	
MKTG 7280	Data and Analysis for Marketing Decisions	
Total Credit Hours		**9**

Renewable and Sustainable Energy

Course ID	Title	Credits
ENRG 7850	Renewable & Electric Power Markets [1]	3
ENRG 7860	Renewable Energy Project Development & Finance [1]	3
FINE 7380	Climate Change, ESG, and Financial Markets	3
Total Credit Hours		**9**

[1] Or other approved graduate-level ENRG course focused on renewables and sustainability.