

# ENERGY, MME

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 can be completed in two or three semesters, 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. The fall semester strengthens core quantitative skills while broadening the perspective on the energy industry. Spring schedules are heavy with advanced energy courses that emphasize expertise 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.

### Two-Semester Option

Course ID	Title	Credits
<b>Fall Term (18 credit hours)</b>		
ENRG 6000	Intro to Energy Finance	3
ENRG 7120	Energy Data Analysis	3
ENRG 7200	Energy Fund & Trading	3
ENRG 7210	Energy Acctng & Valuation	3
Electives - Choose 6 credit hours from the following:		
ENRG 7110	Energy Modeling	
ENRG 7730	Energy Investment Banking	
ENRG 7860	Renew Enrg Proj Devl & Finc	
FINE 7140	Venture Cap & Private Equity	
MGMT 7210	Mgmt of Tech & Innovatn	
MGSC 7100	SQL Data Fund and Bus Intel	
<b>Spring Term (18 credit hours)</b>		
ENRG 7130	Energy & Environ Economics	3
ENRG 7500	Energy Risk Management	3
ENRG 7840	Energy Industry Projects	3
Electives - Choose 9 credit hours from the following:		
ACCN 7290	Accounting Analytics	
ENRG 7100	Energy Mrkts, Inst & Pol	
ENRG 7110	Energy Modeling	
ENRG 7300	Adv Energy Trading & Finance	
ENRG 7610	Trading: Wholesale Elec Mkts	
ENRG 7730	Energy Investment Banking	
ENRG 7830	Energy Regulation	
ENRG 7850	Renewable & Electric Power Mkt	
ENRG 7870	Energy for Sustainable Development	
FINE 7140	Venture Cap & Private Equity	
FINE 7510	Econometrics and Forecasting	
FINE 7530	Burkenroad Rpts for Fin Analys	
FINE 7670	Risk Mgmt and App to Enrg Firm	
MGMT 6160	New Venture Planning	

MGMT 7180	Innovation Tech Commercial
MGMT 7210	Mgmt of Tech & Innovatn
MGSC 7310	Modeling and Analytics
MGSC 7320	Advanced Spreadsheet Modeling
MKTG 7280	Research and Analytics

Total Credit Hours 36

**Three-Semester Option**

Course ID	Title	Credits
<b>Fall Term (15 credit hours)</b>		
ENRG 6000	Intro to Energy Finance	3
ENRG 7120	Energy Data Analysis	3
ENRG 7200	Energy Fund & Trading	3
ENRG 7210	Energy Acctng & Valuation	3
Electives - Choose 3 credit hours from the following:		3
ENRG 7110	Energy Modeling	
ENRG 7730	Energy Investment Banking	
ENRG 7860	Renew Enrg Proj Devl & Finc	
FINE 7140	Venture Cap & Private Equity	
MGMT 7210	Mgmt of Tech & Innovatn	
MGSC 7100	SQL Data Fund and Bus Intel	
<b>Spring Term (12-15 credit hours)</b>		
ENRG 7130	Energy & Environ Economics	3
ENRG 7500	Energy Risk Management	3
ENRG 7840	Energy Industry Projects	3
Electives - Choose 3-6 credit hours from the following:		3-6
ACCN 7290	Accounting Analytics	
ENRG 7100	Energy Mrkts, Inst & Pol	
ENRG 7110	Energy Modeling	
ENRG 7300	Adv Energy Trading & Finance	
ENRG 7610	Trading: Wholesale Elec Mkts	
ENRG 7730	Energy Investment Banking	
ENRG 7830	Energy Regulation	
ENRG 7850	Renewable & Electric Power Mkt	
ENRG 7870	Energy for Sustainable Development	
FINE 7140	Venture Cap & Private Equity	
FINE 7510	Econometrics and Forecasting	
FINE 7530	Burkenroad Rpts for Fin Analys	
FINE 7670	Risk Mgmt and App to Enrg Firm	
MGMT 6160	New Venture Planning	
MGMT 7180	Innovation Tech Commercial	
MGMT 7210	Mgmt of Tech & Innovatn	
MGSC 7310	Modeling and Analytics	
MGSC 7320	Advanced Spreadsheet Modeling	
MKTG 7280	Research and Analytics	
<b>Summer Term (0 credit hours)</b>		
Internship encouraged		0
<b>Fall Term (6-9 credit hours)</b>		
Electives - Choose 6-9 credit hours from the following:		6-9
ENRG 7110	Energy Modeling	
ENRG 7730	Energy Investment Banking	

ENRG 7860	Renew Enrg Proj Devl & Finc
FINE 7140	Venture Cap & Private Equity
FINE 7530	Burkenroad Rpts for Fin Analys
MGMT 7210	Mgmt of Tech & Innovatn
MGSC 7100	SQL Data Fund and Bus Intel
<b>Total Credit Hours</b>	<b>36</b>

## Transfer Credit

Transfer credit toward the 36 credit-hour MME degree requirements may be obtained for appropriate graduate-level courses taken in the Freeman School prior to enrollment in the MME program for which at least a B- was earned, if the courses were not used to satisfy requirements for any other degree. Such transfer credits, which apply toward the 36 credit-hour MME requirement, must be approved by the MME adviser before enrollment.

## Waiver Policy

If students wish to waive any course in the MME program, they must request approval from the MME adviser and provide supporting documentation. This may include transcripts, course syllabi from other universities, standardized test scores, professional certifications (e.g. CPA, CFA), and relevant work experience. The MME adviser will determine if the waiver is without substitution or if it requires the substitution of another graduate course. A maximum of six credit hours may be waived without substitution.

## 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 Data Fund and Bus Intel <sup>1</sup>	
<b>Total Credit Hours</b>		<b>9</b>

<sup>1</sup> Or other approved graduate-level MGSC course.

### Banking and Finance

Course ID	Title	Credits
ENRG 7730	Energy Investment Banking	3
FINE 7140	Venture Cap & Private Equity <sup>1</sup>	3
FINE 7530	Burkenroad Rpts for Fin Analys <sup>1,2</sup>	3
<b>Total Credit Hours</b>		<b>9</b>

<sup>1</sup> Or other approved graduate-level FINE course.

<sup>2</sup> Students must apply for enrollment in this course.

### Electric Power

Course ID	Title	Credits
ENRG 7610	Trading: Wholesale Elec Mkts <sup>1</sup>	3
ENRG 7850	Renewable & Electric Power Mkt <sup>1</sup>	3
FINE 7510	Econometrics and Forecasting	3
<b>Total Credit Hours</b>		<b>9</b>

<sup>1</sup> Or other approved graduate-level ENRG course focused on electricity and power.

**Energy Trading and Risk Management**

Course ID	Title	Credits
ENRG 7300	Adv Energy Trading & Finance	3
ENRG 7610	Trading: Wholesale Elec Mkts	3
And one of the following:		3
ENRG 7100	Energy Mrkts, Inst & Pol	
FINE 7510	Econometrics and Forecasting	
FINE 7670	Risk Mgmt and App to Enrg Firm	
Total Credit Hours		9

**Entrepreneurship**

Course ID	Title	Credits
FINE 7140	Venture Cap & Private Equity	3
And two of the following:		6
MGMT 6160	New Venture Planning	
MGMT 7180	Innovation Tech Commercial	
MGMT 7210	Mgmt of Tech & Innovatn	
MKTG 7280	Research and Analytics	
Total Credit Hours		9

**Renewable and Sustainable Energy**

Course ID	Title	Credits
ENRG 7850	Renewable & Electric Power Mkt <sup>1</sup>	3
ENRG 7860	Renew Enrg Proj Devl & Finc <sup>1</sup>	3
ENRG 7870	Energy for Sustainable Development <sup>1</sup>	3
Total Credit Hours		9

<sup>1</sup> Or other approved graduate-level ENRG course focused on renewables and sustainability.