



Course Descriptions & Program Faculty

Course Descriptions

Core Courses

(27 credit hours)

MGSC 671: Management Information Systems

This case-based course demonstrates the role of Enterprise Resource Planning systems in shaping business strategy and business models in the Energy sector. It provides an overview of the key technologies that are important to support daily business intelligence in the various functional units in energy companies including financials, human resources, and operations management. The course also illustrates the relationships between organizational performance and the ability to leverage knowledge assets.

MGSC 625: Supply Chain Management

The course provided an overall view of supply chain management with an emphasis on traditional fossil-based and alternative energy supply chains. Students will develop an appreciation of the complex interactions amongst various partners in the energy supply chain in a global context.

MGMT 636: Organizational and Management Theory

The course provides the theoretical background and practical application of critical competences needed for leading an energy organization. This includes delineating leadership skills in a variety of organizational settings, economic conditions, and workforce compositions. This course also focuses on managing diverse and sometimes, competing stakeholder interests, undergirded by the belief that leadership and accountability are inseparable.

MGSC 624: Statistical Analysis

The course emphasizes the use of data analysis to assist in making managerial decisions. Students will develop an appreciation for a variety of descriptive and inferential statistical tools along with decision-making models that may be used to support analysis and interpretation of data to assist in effective decision-making.

FIN 621: Financial and Economic Analysis

This survey course provides a practical introduction to the global financial economy that prepares managers for today's changing landscape of world financial markets and institutions. It develops the areas of financial markets, investments, and financial management into an interactive and integrative framework that is consistent with the responsibilities of all financial professionals, managers, intermediaries and investors in today's global economy. The discussion further emphasizes how investor activities monitor firms and focuses on the role of financial markets in channeling funds from investors to firms.

MGMT 630: Managerial Communication

The aim of this course is to provide students with the skills required to communicate effectively within teams in a virtual environment. Students will be provided with opportunities and tools to build, develop, and evaluate effective teams. A case-based approach (using case material that will include students' work experiences) will be used to provide students with opportunities to apply theoretical material to solving communication issues in teams.

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ACCT 631: Seminar in Managerial Accounting

This course provides application and evaluation of Full Cost and Successful Efforts accounting for oil and gas industry regarding exploration, development and restoration costs as well as the analysis of oil and gas companies' financial statements. The course also discusses product costing, revenue recognition, the valuation of and disclosure for reserves, the implication of reserve revision on the financial statements, and the political and international environments on energy accounting.

MTKG 650: Strategic Marketing Management

This course revisits some of the classic text and updates to those predictions. Using current research, students will formulate scenarios using alternative energy technologies which describe innovative approaches to energy markets. The goal of the course is to emphasize the connection between energy, the economy, and our society.

MGMT 670: Global Strategic Management

A cross-functional approach to the analysis of strategic decision making in the context of a global economy, integrating accounting, finance, economics, marketing and organization theory to create sustainable competitive advantage. The course emphasizes strategic designs; top management team leadership; the strategic implications of the social, governmental, technological, and international environments; organization structuring; and strategic alliances.

Specialized Energy Finance Courses (9 credit hours)

FIN 675: Energy Finance

This course covers a range of energy-related topics including history and structure of the industry, corporate strategy, decision making and value creation in the energy industry, the major challenges and policy issues facing the industry, and company profiles. Other topics are energy markets, energy regulation, energy technology, and sustainable development.

FIN 685: Energy Trading

This course will cover the financial trading and physical trading as currently practiced in the U.S. This course will provide an in-depth coverage of a wide range of financial derivative products including futures, options, exotic derivatives, value-at-risk concepts, margin call implications of financial trading of derivatives to manage price risks and accounting for derivatives. The students will be introduced to physical trading of natural gas from a practical point of view.

FIN 695: Financial Valuation and Modeling in the Energy Sector

This course bridges the gap between academic financial theory and on-the-job application through highly interactive hands-on training. Using financial modules, students will learn to value energy companies and analyze mergers of two energy companies. The course covers accounting, financial statement analysis, corporate finance, Excel, financial modeling, valuation modeling and mergers and acquisition modeling to equip students with the fundamental and practical financial skills that they will need to excel on the job.

Faculty

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