

Graduate Studies in Mineral and Energy Economics

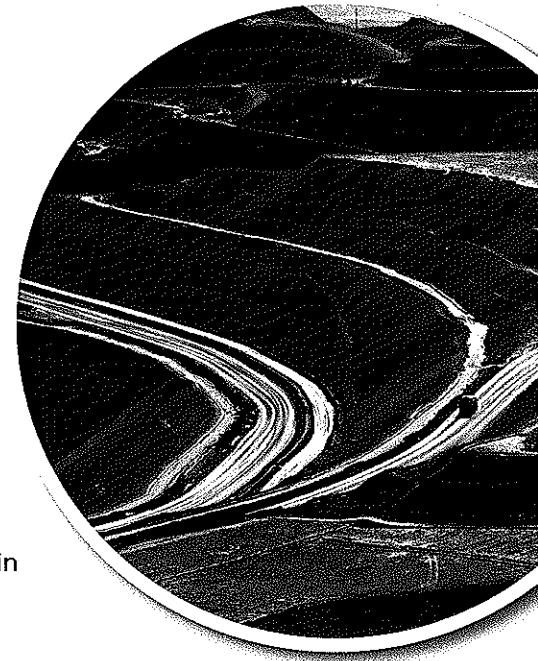
Division of Economics and Business

Apply tools from economics, finance, and operations research to minerals and energy.

Founded in 1969, this world-renowned program leads to M.S. and Ph.D. degrees in Mineral and Energy Economics. Originally known as Mineral Economics, our program attracts students from all over the world, and our alumni are known globally for their career achievements and qualifications. Our faculty's expertise is recognized worldwide creating an exciting and challenging learning environment in the Division.

Students gain skills to:

- Understand the economic and public policy forces driving changes in the energy and mineral industries, both domestically and internationally.
- Apply quantitative tools from economics, finance, optimization and management science to assist in the analysis and implementation of public and business policies.



Quick Facts

Enrollments:

- 23 - PhD Program
- 41 - MS Program
- 7 - CSM/IFP Joint Degree Program

Placement rate:

- Placement rate: PhD 100%
- MS 95%
- Average starting salary: \$77,814
- Range: \$65,000 - \$90,000

"Adaptability, strong theoretical background, worldwide and multi-disciplinary exposure, practical orientation, focus on results. These are just some of the common areas between what the energy industry requires and what Mines offers."

— Eva Maria Gomez, Sr. Planning Engineer, Occidental Oil and Gas MS degree

"My education from Mines has prepared me for a very exciting and rewarding career including conducting business development activities for two major mining companies and running a small mining company. I now help manage an international private equity investment fund focused exclusively on the mining and minerals sector."

— Ross R. Bhappu, Vice President, Resource Capital Funds PhD degree



Recent Placement

Bentek Energy
BP
Credit Suisse
Duff and Phelps

El Paso
Goldman Sachs
Halliburton
Newmont Mining

PFC Energy
Schlumberger
Wood MacKenzie
Xcel

Types of Positions

Energy Economist
Commodity Research

Market Analyst
Oil and Gas Consultant

Operations Manager
Research Economist

Risk & Value Consultant
Supply Chain Analyst

Curriculum

CORE COURSES

Mathematical Economics
Operations Research

Natural Resource Economics
Econometrics

Microeconomics
Macroeconomics

AREAS OF SPECIALIZATION

Public Policy:

Energy Economics
Intl. Trade & Investment

Economics of Metal Industries
Economic Development

Energy and Mineral Policies
Economic Modeling

Quantitative Business Methods/Operations Research:

Economic Evaluation & Investments
Industrial Accounting
Industrial Systems Simulation
Corporate Finance
Investments & Portfolio Management

Nonlinear Programming
Network Models
Integer Programming
Supply Chain Management
Decision Analysis

Stochastic Models
Advanced Project Analysis
Exploration Economics
Linear Programming
Advanced Mathematical Programming

Recent Thesis Projects

- Global Demand for Road Transport Fuels
- Methods for Improving the Tractability of the Block Sequencing Problem for Open Pit Mining
- Cvar-Constrained Multi-Period Power Portfolio Optimization
- Modeling the State-Level Impacts of Carbon Policy: The Case of Colorado

Program Collaborations

- *Petroleum Economics and Management* with the IFP School near Paris, France — this work trains the next generation of technical, analytical and managerial professionals vital to the future of the petroleum and energy industries.
- *Natural Resource Law* with the University of Denver - this reciprocal agreement provides students with the opportunity to take law courses.

For more information, contact:

Division of Economics and Business

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