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 multidisciplinary 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  
PFC Energy  
Schlumberger  
Halliburton  
Wood MacKenzie  
Newmont Mining  
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:
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