

# ENERGY BUSINESS AND FINANCE, MINOR

Requirements for a minor may be completed at any campus location offering the specified courses for the minor. Students may not change from a campus that offers their major to a campus that does not offer their major for the purpose of completing a minor.

## Program Description

The minor in Energy, Business and Finance is an offering of the College of Earth and Mineral Sciences. The minor introduces students to financial, investment, and management concepts applied to private sector organizations whose operation emphasizes the Earth and its environment, the energy and mineral industries, or the development of new and enhanced materials. The minor focuses on the leadership and information strategies characteristic of enterprises that are succeeding in a rapidly integrating global economy.

The minor provides science and engineering students an introduction to basic entrepreneurial and business concepts to help prepare them for success in a changing professional environment. It also provides other Penn State students an opportunity to focus on business strategies in the Earth resources, environmental, and materials industries. A minimum of 27 credits is required for the minor. A student enrolled in this minor must receive a grade C or better in all courses in the minor. Advising is available through the EMS Student Center (14 Deike Building) or the professor in charge.

## What is Energy Business and Finance?

The solutions to society's existing and emerging energy challenges require interdisciplinary approaches integrating economics and business with the technical knowledge of energy systems and implications for our environment. That's where energy business and finance experts come in. The minor in Energy Business and Finance provides an introduction to the major energy commodity markets, basic energy sciences and the tools for analyzing business decisions that companies in the energy sector make. It is designed to complement technical training for students interested in working in energy-related fields or for students who just want to learn more about global energy markets.

### You Might Like This Program If...

- You want to work in the energy sector.
- You enjoy analytical thinking and complex problem solving.
- You are majoring in a STEM field with an eye on the energy sector, and want to broaden your education to include the study of economics, business and energy markets.

## Program Requirements

Requirement	Credits
Requirements for the Minor	27-29

### Requirements for the Minor

A grade of C or better is required for all courses in the minor, as specified by Senate Policy 59-10 (<https://senate.psu.edu/students/policies-and-rules-for-undergraduate-students/59-00-minors-and-certificates/>). In addition, at least six credits of the minor must be unique from the prescribed courses required by a student's major(s).

Code	Title	Credits
<b>Prescribed Courses</b>		
<i>Prescribed Courses: Require a grade of C or better</i>		
EBF 200	Introduction to Energy and Earth Sciences Economics	3
EBF 301	Global Finance for the Earth, Energy, and Materials Industries	3
ECON 102	Introductory Microeconomic Analysis and Policy	3
EME 460	Geo-resource Evaluation and Investment Analysis	3
<b>Additional Courses</b>		
<i>Additional Courses: Require a grade of C or better</i>		
Select 3-4 credits from:		3-4
MATH 22	College Algebra With Analytic Geometry and Applications II	
MATH 110	Techniques of Calculus I	
MATH 140	Calculus With Analytic Geometry I	
Select 3-4 credits from:		3-4
EBF 472	Quantitative Analysis in Earth Sciences	
STAT 200	Elementary Statistics	
STAT 401	Experimental Methods	
Select 3 credits of the following:		3
EGEE 101	Energy and the Environment	
EGEE 102	Energy Conservation for Environmental Protection	
EGEE 120	Oil: International Evolution	
<b>Supporting Courses and Related Areas</b>		
<i>Supporting Courses and Related Areas: Require a grade of C or better</i>		
Select 6 credits from the approved list of EMS courses. Approved courses are:		6
EBF 401	Strategic Corporate Finance for the Earth, Energy, and Materials Industries	
EBF 402	Energy Law and Contracts	
EBF 473	Risk Management in Energy Industries	
EBF 483	Introduction to Electricity Markets	
EBF 484	Energy Economics	
EGEE 401	Energy in a Changing World	
EME 444	Global Energy Enterprise	
GEOG 424W	Geography of the Global Economy	
GEOG 430	Human Use of Environment	
GEOG 431	Geography of Water Resources	
GEOG 432	Energy Policy	
GEOG 444	Resource Governance in Africa	
GEOG 469	Energy Industry Applications of GIS	
GEOSC 402Y	Natural Disasters	
GEOSC 454	Geology of Oil and Gas	
METEO 473	Application of Computers to Meteorology	

## Academic Advising

The objectives of the university's academic advising program are to help advisees identify and achieve their academic goals, to promote their intellectual discovery, and to encourage students to take advantage of both in-and out-of class educational opportunities in order that they become self-directed learners and decision makers.

Both advisers and advisees share responsibility for making the advising relationship succeed. By encouraging their advisees to become engaged in their education, to meet their educational goals, and to develop the habit of learning, advisers assume a significant educational role. The advisee's unit of enrollment will provide each advisee with a primary academic adviser, the information needed to plan the chosen program of study, and referrals to other specialized resources.

READ SENATE POLICY 32-00: ADVISING POLICY (<https://senate.psu.edu/students/policies-and-rules-for-undergraduate-students/32-00-advising-policy/>)

## University Park

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## World Campus

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## Contact

### University Park

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<https://www.worldcampus.psu.edu/degrees-and-certificates/penn-state-online-energy-business-and-finance-minor> (<https://www.worldcampus.psu.edu/degrees-and-certificates/penn-state-online-energy-business-and-finance-minor/>)