The College of Earth and Mineral Sciences (EMS) at Penn State boasts a long and distinguished history, one that started in 1859 with the University's first Earth sciences courses offered in the agricultural program and stretches today to the borders of the Commonwealth, the nations, and beyond. The college was founded in 1896 as the School of Mines with its single major in mining engineering and was later renamed the School of Mineral Industries by Dean Edward Steidle in 1929, supporting Pennsylvania as the leading mineral-producing state. Today, the college is internationally recognized for research and education in engineering, Earth sciences, energy, and materials science.

www.ems.psu.edu

ENROLLMENT

Undergraduate

1,956 at UP

2,290 EMS Total (Fall 2017)

Graduate

World Campus

146

646 EMS Total

101 Resident Master’s

399 Ph.D.

Official data for 2017 not available.

ACADEMIC DEPARTMENTS

• John and Willie Leone Family Department of Energy and Mineral Engineering
• Department of Geography
• Department of Geosciences
• Department of Materials Science and Engineering
• Department of Meteorology and Atmospheric Science

OUR INSTITUTES

• John A. Dutton e-Education Institute
• Earth and Environmental Systems Institute (EESI)
• EMS Energy Institute

ACADEMIC RANKINGS

Programs in all five academic departments are ranked nationally. In the latest U.S. News & World Report rankings, EMS has six graduate (G) programs and two undergraduate (UG) programs ranked in the top twenty.

• Geology, 1st (G)
• Environmental Sciences, 3rd (G)
• Petroleum and Natural Gas Engineering, 4th (UG)
• Geochemistry, 4th (G)
• Earth Sciences, 5th (G)
• Petroleum and Natural Gas Engineering, 6th (G)
• 10th Materials Sciences and Engineering (UG)
• 12th Materials Sciences and Engineering (G)
UNDERGRADUATE PROGRAMS

Resident (B.S./B.A.)
• Earth Science and Policy
• Earth Sciences
• Energy Business and Finance
• Energy Engineering
• Environmental Systems Engineering
• Geobiology
• Geography
• Geosciences
• Materials Science and Engineering
• Meteorology and Atmospheric Science
• Mining Engineering
• Petroleum and Natural Gas Engineering

Online Degree Programs
• Energy and Sustainability Policy

GRADUATE PROGRAMS

Resident (M.S. and Ph.D.)
• Astrobiology
• Biogeochemistry
• Energy and Mineral Engineering
• Geography
• Geosciences
• Materials Science and Engineering
• Meteorology

Online Degree Programs
• Bioenergy
• Education in Earth Sciences
• Geographic Information Systems
• Professional Studies in Homeland Security, Geospatial Intelligence Option
• Renewable Energy and Sustainability Systems
  - Solar Energy
  - Sustainability Management and Policy

RESEARCH

In the most recent rankings released by the National Science Foundation of total research expenditures for science and engineering, many of the college’s programs are ranked in the top ten:
• Metallurgical and Materials Engineering, 1st
• Physical Sciences - Materials Science, 3rd
• Total Engineering, 5th
• Geological and Earth Sciences, 8th
• Atmospheric Science and Meteorology, 10th

Faculty

134 TENURED/TENURE-TRACK
- 81 Full Professors
- 21 Associate Professors
- 32 Assistant Professors

154 NON-TENURE-TRACK
- 68 Researchers/Research Professors
- 53 Lecturers/Instructors/Teaching Professors
- 33 Postdoctoral Scholars

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This publication is available in alternative media on request.
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Degrees Awarded

- 765 Total Degrees (AY 2016-17)
- 630 Bachelor’s Degrees
- 88 Master’s Degrees
- 47 Doctoral Degrees

Expenditures

- Total expenditures $129M
- General $50M
- Research $64.4M
- Gifts/Endowments $14.4M
- Other $1.29M

Penn State College of Earth and Mineral Sciences

FY 2016-17