

Duke University Energy Initiative

Energy education at Duke capitalizes on the University's broader Energy Initiative, a university-wide interdisciplinary collaboration focused on advancing an accessible, affordable, reliable, and clean energy system. Duke students—at all levels—will gain the training, skills, and experiences needed to play leadership roles in a rapidly evolving energy future. For more details, see energy.duke.edu.

Graduate Curricular Offerings

Register for an Energy Gateway course, go deeper with an Energy Depth course, or enroll in a curricular program, such as those with an Energy concentration within one of the professional programs. For more details see reverse side and energy.duke.edu/education.

Co-Curricular Activities

Participate in the many energy events and activities:

- ❖ Energy Speaker Series (visiting guest speakers)
- ❖ Power Lunches (lunchtime seminars)
- ❖ Energy Mix (social networking events)
- ❖ Duke University Energy Conference (annual each fall)
- ❖ Energy Industry Fundamentals (annual each fall)
- ❖ Power Trips (local and regional field trips)
- ❖ Energy Mentoring Conversations (group chats with industry professionals)

Visit energy.duke.edu for details on our events and campus energy activities, and to sign up for energy news by email.

Student Energy Clubs

Join a student club engaged in energy-related learning, including:

- ❖ Nicholas School Energy Club
- ❖ Fuqua School MBA Energy Club
- ❖ Sanford School Energy and Environment Club
- ❖ Nicholas School Business and Environment Club
- ❖ Duke Oil, Gas and Energy Law Society

For more details, see our [Student Energy Clubs page](#).

About Bass Connections

Bass Connections in Energy offers a unique team based learning opportunity for students and faculty by crossing boundaries through problem-focused education—boundaries among disciplines, educational levels, and schools; geographic boundaries; and boundaries between the university, business, civil society, and government. Bass Connections is fully integrated with other energy education programming at Duke.

Project Teams

Project teams connect undergraduate and graduate students, faculty, and external experts to pursue energy problems requiring cross-disciplinary solutions. Teams for 2015-2016 will become active during the Fall semester.

Each project team will establish three core connections:

- ❖ Between the academy and the broader world,
- ❖ Across disciplinary expertise, and
- ❖ Across learner levels.

Visit energy.duke.edu/education/bass-connections to learn more about the new project teams and how to apply.

Register for course credit through ENERGY 795/796 (see reverse side) or a departmental project course.

Contact Information

- ❖ Website: energy.duke.edu/education
- ❖ Email: energyinitiative@duke.edu
- ❖ Phone: 919-613-1305 for general information or call 919-684-1394 to speak with Stacy Peterson, Energy Education Program Coordinator
- ❖ Location: Gross Hall; on the corner of Science and Towerview Drive

Effective date November 17, 2015

Graduate Energy Curriculum

Energy-related Curricular Programs

- Concentration in Energy and Environment (EE), Master of Environ. Management (MEM), Nicholas School of the Environment
- Concentrations in Energy and Environment or Energy Finance, Master of Business Administration (MBA), Fuqua School of Business
- Concentration in Environment and Energy Policy, Master of Public Policy (MPP), Sanford School of Public Policy
- University Ph.D. Program in Environmental Policy (UPEP), Nicholas School of the Environment and Sanford School of Public Policy

Energy Gateway Courses

- [Energy and the Environment \(ENV 711\)](#)

Experiential Energy Courses

- [Hydrocarbons: Houston Field Trip \(ENV 712A\)](#)
- [Clean Energy: California Field Trip \(ENV 713A\)](#)

Energy Project Courses

- [Connections in Energy: Project \(ENERGY 795/796\)](#)
- [Energy and Environment Masters Project Seminar \(ENV 898.09\)](#)
- [Fuqua Client Consulting Practicum \(ENRGYENV 895\)](#)

Distance Learning Courses

- [Energy, Environment, and the Law \(ENV 985\)](#)
- Energy and Environment Today (ENV 978)

❖ Courses that are underlined signify a hyperlink to the syllabus for this course, available online.

Course offerings change, so students should consult the current university course schedule for updated listings and for information regarding pre-requisites.

For an online listing of these and other classes, please visit energy.duke.edu/education/courses.



Energy Depth Courses

Energy Technologies, Systems, and Science Courses

- Introduction to Electrical Energy Conversion (ECE 590.07)
- Sustainable Cities and Urban Design (ENV 590.37)
- [Petroleum Exploration \(ENV 590.51\)](#)
- [Transportation and Energy \(ENV 630\)](#)
- [Energy Technology \(ENV 631\)](#)
- [Air Pollution: From Sources to Health Effects \(ENV 642\)](#)
- [Our Changing Atmosphere: From Air Pollution to Climate Change \(ENV 739/CEE 665\)](#)
- Energy and Environment in Existing Homes (ENV 801.21/22)
- Sustainable Systems Theory and Drivers (ENV 811)
- [Building Energy on Campus \(ENV 830\)](#)
- [The Climate System \(EOS 511\)](#)
- [Water Quality and Health \(EOS 524\)](#)
- [The Water-Energy Nexus \(EOS 729S\)](#)
- [Thin-Film Photovoltaics \(ME 555.12\)](#)

Energy Economics and Business Courses

- [Energy Finance \(ENERGY 620\)](#)
- [Applied Energy Economics \(PUBPOL/ENERGY 590S\)](#)
- [Energy Economics and Policy \(ENV/PUBPOL 635\)](#)
- [Resource and Environ. Econ. I \(ENV 520/ECON 530/PUBPOL 576\)](#)
- [Climate Change Economics \(ENV 640/PUBPOL 585\)](#)
- [Markets for Electric Power \(ENV 717\)](#)
- Energy, Markets, and Innovation (ENRGYENV 625)
- [Modeling & Analysis for Environ. Sustain. \(ENRGYENV 626\)](#)
- [Business Strategies for Sustainability \(ENRGYENV 627\)](#)
- [EDGE Seminar Series \(ENRGYENV 898H\)](#)
- Energy Focused GATE (ENRGYENV 898.201)

Energy Policy and Law Courses

- [Renewables and the World's Poor \(ENERGY 790\)](#)
- [Energy Economics and Policy \(ENV/ENERGY 635\)](#)
- [Environmental Politics \(ENV 577\)](#)
- [The Geopolitics of Energy \(ENV 593.12\)](#)
- [Energy, Environment, and the Law \(LAW 234/ENV 590.115\)](#)
- [Environmental Law \(LAW 235/ENV 835/ENERGY 835\)](#)
- [Energy Law \(LAW 327/ENERGY 727\)](#)
- [Climate Change and the Law \(LAW 520\)](#)
- [National Oil Companies in Latin America \(LATAMER/ENV/ENERGY 790\)](#)
- [Energy and U.S. National Security \(PUBPOL/ENV 583S\)](#)
- Applied Big Data Science: Energy Data Analytics and Policy (PUBPOL/ENERGY 590.08)
- International Energy System, Sustainable Development and Security (PUBPOL 754)
- Topics in Environmental Regulation (ENV 891)

Energy Modeling and Assessment Courses

- [Understanding Energy Models and Modeling \(ENV 715L\)](#)
- [Modeling for Energy Systems \(ENV 716L\)](#)
- Environmental Life Cycle Assessment (ENV 638)