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WELCOME TO THE ENEP-BS DEGREE PROGRAM

An Interdisciplinary, Intercollegiate Degree

The undergraduate Baccalaureate of Science in Energy and Environmental Policy (ENEP-BS) is an interdisciplinary degree offered with the support of 5 Colleges of the University of Delaware. The Center for Energy and Environmental Policy administers the degree (see below) and it is part of the College of Arts and Sciences. The ENEP-BS equips students for careers in energy and environmental fields through courses focused on knowledge advancement and research experiences to develop competitive skills for participation in this fast-growing field.

Administered by the Center for Energy and Environmental Policy

The ENEP-BS degree builds upon the leadership of the Center for Energy and Environmental Policy (CEEP) in energy and environmental policy analysis and development. Established in 1980, CEEP offered the nation’s first interdisciplinary graduate degrees in energy and environmental policy, while also directing numerous research projects in collaboration with local, state, national, international and non-governmental partner organizations, and pressing for the integration of social justice in energy and environmental policy development by engaging academic and professional discourses.

The ENEP-BS degree fits within this context of rigorous academic studies, praxis in the analysis and development of energy and environmental policies through coordination with partner organizations and governments, and the wider dissemination of knowledge about the need for the consideration of equitable futures in the analysis and development of energy and environmental policies.

Choose Your Career Path

Students who graduate with an ENEP-BS degree are prepared for rewarding academic or professional careers in renewable energy, environmental protection, sustainable development, climate change policy and green jobs. Careers include energy and environmental planning, policy analysis, management and administration, and research in the public, private and non-profit sectors. Graduates of the program will be qualified to assume positions in local and national governments, international agencies, research and policy institutions, consulting firms, energy utilities, and corporate departments with responsibilities in energy and environmental matters. Energy and environmental policy is a burgeoning field with numerous career opportunities.
Degree Concentrations

Our choice of degree concentrations enables students to choose an approach toward energy and environmental policy that suits their own career desires.

Energy, Environment and Society (EES) through this concentration, students prepare for careers in local, national or international energy/environmental policy analysis and planning, sustainability research, and climate change scenario analysis. Coursework integrates the social sciences, economics, statistical analysis, science and technology for students to develop a broad interdisciplinary understanding of the challenges and proposed solutions for major environmental and energy challenges, including climate change, the transitions to a clean energy economy, and the promotion of ecological justice. The faculty advisor for students in this concentration is Dr. John Byrne (who shares the 2007 Nobel Peace Prize for decades of work with the Intergovernmental Panel on Climate Change).

Energy, Science and Technology (EST) through this concentration, students prepare for careers in sustainable energy technology development, policy analysis and planning. Coursework bridges scientific and technological knowledge of sustainable energy with the policies that influence energy technology design, market infiltration and consumer choice to analyze and assess sustainable and renewable energy technology options. The faculty advisor for students in this concentration is Dr. Ismat Shah.

Energy, Economics and Public Policy (EEP) through this concentration, students prepare for careers in sustainable energy economics, environmental economics, and Utility regulatory analysis. Coursework emphasizes public policy and economics approaches to public and private sector sustainable energy development and environmental protection. The faculty advisor for students in this concentration is Dr. William Latham.
ENEP-BS CORE FACULTY

Concentration Advisers

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ENEP-BS Degree Requirements

In order to fulfill the requirements for graduation, students must successfully complete 125 credit hours that fulfill university, major, concentration-specific course requirements and electives, and must maintain a 2.0 grade point average (GPA). These credit hours include a student internship and senior thesis.

University Requirements

The University of Delaware requires all students to complete the following 10 credit hours of courses:

ENGL 110 Critical Reading and Writing (3 credits): Prepares students for writing college essays, including essay and thesis statement development, grammar, and scholarship. This course is taught every semester.

First Year Experience: ENEP 117 Science, Society and Energy (1 credit): For course description, see page 15.

Discovery Learning Experience: We recommend ENEP 364 Research Internship (3 credits) to fulfill the DLE requirement. For course description, see page 15.

Multicultural Requirement (3 credits): Introduces students to international perspectives and cultural, ethnic, and religious diversity so that students may live and work more effectively in an increasingly global society. Numerous courses are offered that meet this multicultural requirement, some of which may also be used to fulfill breadth requirements. A list of these courses is searchable in the UD online course catalog.

Breadth Requirements

All majors have Breadth Requirements in order to develop well-rounded scholars who are familiar with diverse fields and perspectives. The ENEP major has the following distribution of 31 credit hours of Breadth Requirements (essentially 19 credits in addition to the University Breadth Requirements):

- Creative Arts and Humanities (9 credits)
- History and Cultural Change (6 credits)
- Social and Behavioral Sciences (6 credits)
- Mathematics, Natural Sciences, and Technology (10 credits)

If chosen carefully, up to 3 credits from each of the University Breadth Requirement categories may be used to simultaneously satisfy the College of Arts and Sciences Breadth Requirements for this major.

Of the 31 credits, 3 credits may be used to simultaneously satisfy the University Multicultural Requirement (recommended for timely progress toward degree completion.)
Some of the qualifying breadth courses also fulfill requirements for the major, enabling students to meet two requirements with the same course. Doing so reserves credits towards the 125 required to graduate that students can fulfill with electives. When a student uses one course to fulfill two requirements, this does not reduce the total of 125 credits needed to graduate in the major.

Electives in the major or non-major electives are taken to assure completion of the 125 credit requirement. All courses must be passed with a minimum grade of C-.

Note: The 31 credit hours of Breadth Requirements specified by the ENEP Program includes the 12-credit minimum required by University Policy. ENEP majors do not need to take any Breadth Requirement courses beyond the 31 credits specified above.

**Major Requirements**

The ENEP-BS degree requires all students in any concentration to complete a 3-credit second writing course, 15 credit hours of core curriculum courses, and 12 credit hours of capstone courses and a Senior Thesis for 6-credits.

Foreign Language Requirement: There is no major foreign language requirement. The EES and EST concentrations include the opportunity to count up to 8 credits of foreign language instruction to fulfill the concentration requirement.

Minimum Mathematics Requirement: MATH 114 is required for EEP and EES concentrations and MATH 241 is required for EST concentration.

Second Writing Course (3 credits): Provides students with the opportunity to develop their writing skills through guided writing exercises. This course must be taken after completion of 60 credit hours. Appropriate writing courses are designated in the semester’s course listings; several ENEP courses fulfill this requirement, including:

- ENEP 410 Environmental Sustainability: Economic and Policy Analysis (Fall) (3 credits)
- ENEP 425 Energy Policy and Administration (Fall) (3 credits)
- ENEP 426 Climate Change Policy (Spring) (3 credits)
- ENEP 427 Sustainable Energy: Economics and Policy Analysis (Spring) (3 credits)
- ENEP 468 Research in Energy and Environment (Fall) (3 credits)
- ENEP 470 Readings in Energy and Environment (Fall) (3 credits)
- ENEP 472 Senior Thesis (Fall) (6 credits)

Core Curriculum Courses (15 credits): these fundamental courses offer the foundation for energy and environmental policy study. These courses include:

- ENEP 250 Introduction to Energy Policy (Spring) (3 credits) Also fulfills the “Social and Behavioral Sciences” Breadth Requirement
- PHYS 143 Energy Technology and Society (Fall and Spring) (3 credits) Also fulfills the “Mathematics, Natural Sciences, and Technology” Breadth Requirement
ECON 101 Introduction to Microeconomics (Fall, Winter and Spring) (3 credits)  
Also fulfills the “Social and Behavioral Sciences” Breadth Requirement

GEOG 236 Conservation of Natural Resources: Global Issues (Fall) (3 credits)  
Also fulfills the “Social and Behavioral Sciences” Breadth Requirement

POSC 220 Introduction to Public Policy (Fall, Winter and Spring) (3 credits)  
OR
UAPP 225 Crafting Public Policy (Fall) (3 credits)  
Also fulfills the “Social and Behavioral Sciences” Breadth Requirement

Note: APEC 100 Sustainable Development may substitute for POSC 220 or UAPP 225 in the Core Curriculum with the permission of the Student’s Concentration Advisor. Please see the Course Substitution Form on page 20 which can also be accessed from CEEP’s Website.

Capstone Courses (12 credits): these advanced courses provide opportunities for students to integrate and explore research sustainable energy and environmental issues.

ENEP 425 Energy Policy and Administration (Fall) (3 credits)  
Also fulfills the “Social and Behavioral Sciences” Breadth Requirement and the Second Writing Requirement

ENEP 427 Sustainable Energy: Economics and Policy Analysis (Spring) (3 credits)  
Also fulfills the “Social and Behavioral Sciences” Breadth Requirement and the Second Writing Requirement

CHEG 625 (Spring) Green Engineering (3 credits)

GEOG 422 Resources, Development and the Environment (Spring – Not offered in Spring 2016) (3 credits)

Senior Thesis (6 credits): ENEP 472 (for a description of this course, see page 18)

Concentration-Specific Courses

While all ENEP-BS students must fulfill the same university and major requirement categories, each concentration requires different advanced courses and elective advanced courses totaling to 48 credit hours.

Energy, Environment and Society (EES)

Advanced Course Requirements (ACR) (12 credits)

ENEP 410 Environmental Sustainability: Economic and Policy Analysis (3 credits)  
Also fulfills the “Social and Behavioral Sciences” Breadth Requirement and the Second Writing Requirement

Or POSC 350 Politics and the Environment (3 credits)  
Also fulfills the “Social and Behavioral Sciences” Breadth Requirement and the Second Writing Requirement

ENEP 426 Climate Change Policy (3 credits)  
Also fulfills the Second Writing Requirement. A request has been made for this course to fulfill the “Social and Behavioral Sciences Breadth Requirement”
APEC 343/ ECON 343  Environmental Economics (3 credits) (ECON 101 or APEC 150 required)  Also fulfills the “Social and Behavioral Sciences” Breadth Requirement

ECON 300  Intermediate Microeconomic Theory (3 credits)  Also fulfills the “Social and Behavioral Sciences” Breadth Requirement

**Advanced Course Electives (ACE)**

Science/Methods - choose 12 credits from list below:

- ENEP 420  Water Resources Management (3 credits) (MATH 114 or MATH 115 required)
- BISC 321  Environmental Biology (3 credits) (BISC 208 or Instructor permission required)
- CIEG 402  Introduction to Sustainability Principles in Civil Engineering (3 credits)
- ECON 422  Econometric Methods & Models I (3 credits) (ECON 103; MATH 221 or MATH 241; and MATH 202, MATH 205, MATH 350 or MATH 450 required)
- ENWC 201  Wildlife Conservation and Ecology (3 credits)  Also fulfills the “Mathematics, Natural Sciences, and Technology” Breadth Requirement
- ENWC 325  Wildlife Management (3 credits) (ENWC 201 required; Junior status required)
- ENWC 456  Conservation Biology (3 credits) (Junior status required)
- GEOG 271  Introduction to Geographic Data Analysis (3 credits)  Also fulfills the “Mathematics, Natural Sciences, and Technology” Breadth Requirement
- GEOG 372  Introduction to GIS (3 credits)
- GEOG 412  Physical Climatology (MATH 241, GEOG 220, and GEOG 271 required) (4 credits)
- MATH 201  Introduction to Statistical Methods I (3 credits)  Also fulfills the “Mathematics, Natural Sciences, and Technology” Breadth Requirement
- MATH 202  Introduction to Statistical Methods II (3 credits) (MATH 201 required)
- MATH 221  Calculus 1 (3 credits)  Also fulfills the “Mathematics, Natural Sciences, and Technology” Breadth Requirement
- MATH 241  Analytic Geometry and Calculus A (4 credits)  Also fulfills the “Mathematics, Natural Sciences, and Technology” Breadth Requirement

*Note that credit cannot be received for both MATH 221 and MATH 241.*

- STAT 408  Statistical Research Methods I (3 credits)
- STAT 470  Introduction to Statistical Analysis I (3 credits) (MATH 222 or MATH 242 required)
- STAT 471  Introduction to Statistical Analysis II (3 credits) (MATH 222 or MATH 242 required)
- STAT 475  Environmental Statistics (3 credits)

Social Science – choose 24 credits from list below:
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Requirements</th>
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<tbody>
<tr>
<td>ENEP 366</td>
<td>Independent Study (1—3 credits)</td>
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<tr>
<td>ENEP 402</td>
<td>Electricity Policy and Planning (3 credits)</td>
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<tr>
<td>ENEP 413/</td>
<td>Wildlife Policy and Administration (3 credits) (ENWC 201 required; Juniors and Seniors only)</td>
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<td>ENEP 468</td>
<td>Research in Energy and Environment (3 credits) Also fulfills the Second Writing Requirement</td>
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<td>ENEP 470</td>
<td>Readings in Energy and Environment (3 credits) Also fulfills the Second Writing Requirement</td>
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<tr>
<td>APEC 324</td>
<td>Introduction to Resource Economics (3 credits) (APEC 150 or ECON 101 required)</td>
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<tr>
<td>APEC 406</td>
<td>Agricultural and Natural Resource Policy (3 credits) (APEC 150 or ECON 101 required)</td>
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<td>APEC 450</td>
<td>Topics in Environmental Law (3 credits) (Juniors and Seniors only)</td>
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<td>ENGL 365</td>
<td>Environmental Non-Fiction (3 credits) Also fulfills the “Creative Arts and Humanities” Breadth Requirement and the Second Writing Requirement</td>
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<td>HIST 223</td>
<td>Nature and History (3 credits) Also fulfills the “History and Cultural Change” Breadth Requirement</td>
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<td>HIST 337</td>
<td>American Environmental History (3 credits) Also fulfills the “History and Cultural Change” Breadth Requirement</td>
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<td>PHIL 448</td>
<td>Environmental Ethics (3 credits) Also fulfills the “Creative Arts and Humanities” Breadth Requirement</td>
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<td>POSC 311</td>
<td>Politics of Developing Nations (3 credits)</td>
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<td>POSC 316</td>
<td>International Political Economy (3 credits)</td>
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<td>SOCI 470</td>
<td>Environmental Sociology (3 credits) (SOCI 201 and SOCI 312 required)</td>
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<td>SOCI 471</td>
<td>Disasters, Vulnerability and Development (3 credits)</td>
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<tr>
<td>UAPP 325</td>
<td>Public Policy Analysis (3 credits) (UAPP 110, UAPP 225, and ECON 101 encouraged)</td>
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<tr>
<td>UAPP 406/</td>
<td>Plan Sustainable Communities &amp; Regions (3 credits)</td>
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<td>GEOG 434</td>
<td>Foreign Language (up to 8 credits)</td>
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**Energy, Science and Technology (EST)**

Advanced Course Requirements (ACR) (18 credits)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites/Requirements</th>
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<tr>
<td>ENEP 426</td>
<td>Climate Change Policy (3 credits) Also fulfills the Second Writing Requirement. A request has been made for this course to fulfill the “Social and Behavioral Sciences Breadth Requirement”</td>
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<tr>
<td>CHEM 103</td>
<td>General Chemistry (4 credits) (co-requisite MATH 114 or Higher) Also fulfills the “Mathematics, Natural Sciences, and Technology” Breadth Requirement</td>
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<td>ECON 300</td>
<td>Intermediate Microeconomic Theory (3 credits) (ECON 101 required) Also fulfills the “Social and Behavioral Sciences” Breadth Requirement</td>
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</table>
MATH 241  Analytic Geometry and Calculus A (4 credits)  Also fulfills the “Mathematics, Natural Sciences, and Technology” Breadth Requirement

PHYS 201  Introductory Physics I (4 credits)  (MATH 115, MATH 117, MATH 221 or MATH 241 required)  Also fulfills the “Mathematics, Natural Sciences, and Technology” Breadth Requirement
Advanced Course Electives (ACE):

Choose 30 credits from the course list below.

- **ENEP 420**  Water Resources Management (3 credits)  (MATH 114 or MATH 115 required)
- **ENEP 366**  Independent Study (1—3 credits)
- **ENEP 402**  Electricity Policy and Planning (3 credits)
- **ENEP 410**  Environmental Sustainability: Economic and Policy Analysis (3 credits)  Also fulfills the “Social and Behavioral Sciences” Breadth Requirement and the Second Writing Requirement
- **ENEP 413/ENWC 413**  Wildlife Policy and Administration (3 credits)  (ENWC 201 required; Juniors and Seniors only)
- **ENEP 468**  Research in Energy and Environment (3 credits)  Also fulfills the Second Writing Requirement
- **ENEP 470**  Readings in Energy and Environment (3 credits)  Also fulfills the Second Writing Requirement
- **APEC 343/ECON 343**  Environmental Economics (3 credits)  (ECON 101 or APEC 150 required)  Also fulfills the “Social and Behavioral Sciences” Breadth Requirement
- **BUAD 301**  Introduction to Marketing (3 credits) (Sophomore status required)  Also fulfills the “Social and Behavioral Sciences” Breadth Requirement
- **BUAD 472**  Marketing, Society and the Environment (3 credits)  (BUAD 301 required)
- **CHEM 104**  General Chemistry II (4 credits)  (CHEM 101, CHEM 103 or CHEM 105 required)  Also fulfills the “Mathematics, Natural Sciences, and Technology” Breadth Requirement
- **CIEG 402**  Introduction to Sustainability Principles in Civil Engineering (3 credits)
- **ECON 311**  Economics of Developing Countries (3 credits)  (ECON 101 and ECON 103 required)  Also fulfills the “Social and Behavioral Sciences” Breadth Requirement
- **ELEG 415/ELEG 615**  Electric Power and Renewable Energy Systems (3 credits)
- **ELEG 491**  Ethics/Impacts of Engineering (3 credits)  (open to Engineering Seniors; others by permission of Instructor)
- **GEOG 271**  Introduction to Geographic Data Analysis (3 credits)  Also fulfills the “Mathematics, Natural Sciences, and Technology” Breadth Requirement
- **GEOG 372**  Introduction to GIS (3 credits)
- **GEOG 412**  Physical Climatology (4 credits)  (MATH 241, GEOG 220 and GEOG 271 required)
- **MATH 242**  Analytic Geometry and Calculus B (MATH 241 required) (4 credits)  Also fulfills the “Mathematics, Natural Sciences, and Technology” Breadth Requirement
- **MEEG 435**  Wind Power Engineering (3 credits)  (MEEG 332 required)
- **MEEG 442**  Introduction to Fuel Cells (3 credits)  (MEEG 331 or CIEG 305 and MEEG 341 and MEEG 342 required)
STAT 470  Introduction to Statistical Analysis I (3 credits)  (MATH 222 or MATH 242 required)
STAT 471  Introduction to Statistical Analysis II (3 credits)  (MATH 222 or MATH 242 required)
UAPP 325  Public Policy Analysis (3 credits)  (UAPP 110, UAPP 225, and ECON 101 encouraged)
UAPP 406/
GEOG 434  Plan Sustainable Communities & Regions (3 credits)
Foreign Language (up to 8 credits)

Energy, Economics and Public Policy (EEP)

Advanced Course Requirements (ACR):

Choose 18 credits selected from:

ENEP 402  Electricity Policy and Planning (3 credits)
ENEP 410  Environmental Sustainability: Economic and Policy Analysis (3 credits)
  Also fulfills the “Social and Behavioral Sciences” Breadth Requirement and the Second Writing Requirement
APEC 343/
ECON 343  Environmental Economics (3 credits)  (ECON 101 or APEC 150 required)
  Also fulfills the “Social and Behavioral Sciences” Breadth Requirement
ECON 300  Intermediate Microeconomic Theory (3 credits)  (ECON 101 required)
  Also fulfills the “Social and Behavioral Sciences” Breadth Requirement

A 400-level course applicable to the Energy, Economics and Public Policy Concentration as approved in advance by the Concentration Advisor. (3 credits)

One of the following (3 credits):

ECON 422  Econometric Methods and Models I (3 credits)  (ECON 103; and MATH 221 or MATH 241; and MATH 202, MATH 205, MATH 350 or MATH 450 required)
MATH 201  Introduction to Statistical Methods (3 credits)
STAT 200  Basic Statistical Practice (3 credits)
STAT 408  Statistical Research Methods (3 credits)
STAT 470  Introduction to Statistical Analysis (3 credits)  (MATH 222 or MATH 242 required)

Previously POSC 300 Data Analysis for Political Sciences was offered as an option for this requirement, but the course has been restricted to majors and for this reason the course is not listed as an ACR option in this Handbook.

Advanced Course Electives (ACE)
Choose 30 credits from the course list below. (Other courses can be added with the approval of the advisor.)

**ENEP 420** Water Resources Management (3 credits) (MATH 114 or MATH 115 required)

**ENEP 413/ENWC413** Wildlife Policy and Administration (ENWC 201 required; Juniors and Seniors only)

**ENEP 426** Climate Change Policy (3 credits) Also fulfills the Second Writing Requirement. A request has been made for this course to fulfill the “Social and Behavioral Sciences Breadth Requirement”

**APEC 406** Agricultural and Natural Resource Policy (3 credits) (requires ECON 101 or APEC 150)

**BUAD 301** Introduction to Marketing (3 credits) (Sophomore status required) Also fulfills the “Social and Behavioral Sciences” Breadth Requirement

**BUAD 472** Marketing, Society and the Environment (3 credits) (BUAD 301 required)

**CIEG 402** Introduction to Sustainability Principles in Civil Engineering (3 credits)

**ECON 103** Introduction to Macroeconomics (3 credits) (ECON 101 required) Also fulfills the “Social and Behavioral Sciences” Breadth Requirement

**ECON 311** Economics of Developing Countries (3 credits) (ECON 101 and ECON 103 required) Also fulfills the “Social and Behavioral Sciences” Breadth Requirement

**ECON 360** Government Regulation of Business (3 credits) (ECON 101 required) Also fulfills the “Social and Behavioral Sciences” Breadth Requirement

*Note: Both ECON 360 and ECON 463 cannot be counted toward degree credit.*

**ECON 422** Econometric Methods & Models I (3 credits) (ECON 103; MATH 221 or MATH 241; and MATH 202, MATH 205, MATH 350 or MATH 450 required)

**ECON 426** Mathematical Economic Analysis (3 credits) (ECON 251, ECON 300, or ECON 301 and MATH 222 or MATH 242 required)

**ECON 463** Economics of Regulation (3 credits) (ECON 251, ECON 300, or ECON 301 and MATH 221 or MATH 241 required)

**GEOG 271** Introduction to Geographic Data Analysis (3 credits) Also fulfills the “Mathematics, Natural Sciences, and Technology” Breadth Requirement

**GEOG 372** Introduction to GIS (3 credits)

**GEOG 412** Physical Climatology (4 credits) (MATH 241, GEOG 220 and GEOG 271 required)

**MATH 201** Introduction to Statistical Methods I (3 credits) Also fulfills the “Mathematics, Natural Sciences, and Technology” Breadth Requirement

**MATH 202** Introduction to Statistical Methods II (3 credits) (MATH 201 required)

**MATH 221** Calculus 1 (3 credits) Also fulfills the “Mathematics, Natural Sciences, and Technology” Breadth Requirement
MATH 241  Analytic Geometry and Calculus A (4 credits)  Also fulfills the “Mathematics, Natural Sciences, and Technology” Breadth Requirement
Note that credit cannot be received for both MATH 221 and MATH 241.
MATH 242  Analytic Geometry and Calculus B (4 credits)  Also fulfills the “Mathematics, Natural Sciences, and Technology” Breadth Requirement
POSC 301  State and Local Government (3 credits)
POSC 311  Politics of Developing Nations (3 credits)
POSC 316  International Political Economy (3 credits)
STAT 470  Introduction to Statistical Analysis I (3 credits)  (MATH 222 or MATH 242 required)
STAT 471  Introduction to Statistical Analysis II (3 credits)  (MATH 222 or MATH 242 required)
UAPP 325  Public Policy Analysis (3 credits)  (UAPP 110, UAPP 225, and ECON 101 encouraged)
UAPP 406/
GEOG 434  Plan Sustainable Communities & Regions (3 credits)
UAPP 410  Politics and the Delivery of Public Policy (3 credits)
UAPP 419  Policy Leadership and Ethics (3 credits)
UAPP 440  Contemporary Policy Issues (3 credits)
ENEP COURSE DESCRIPTIONS

**ENEP 117 Science, Society and Energy**

This 1-credit course introduces basic science and societal issues related to energy production processes and effects of their uses. Topics include ethics of energy production and uses, scientific principles that govern production and use of energy, environmental issues related to the use of energy, e.g., global warming, acid rain. This course is taught each fall semester.

**ENEP 250 Introduction to Energy Policy - Also fulfills the “Social and Behavioral Sciences” Breadth Requirement**

This course introduces United States’ energy policy and addresses energy policy development and options as part of their social, economic and environmental contexts. Energy policy is therefore considered from an interdisciplinary perspective, integrating scientific and social-science approaches to address energy consumption, efficiency, conservation, fuel choice and sustainability. Course topics include a comprehensive overview of the main events and actors that have shaped energy policy in the United States, as well as the issues that decision-makers must understand to promote sustainable energy policies in the future.

**ENEP 420 Water Resources Management**

Introduces and analyzes various aspects of water resources management both quantitatively and qualitatively. Topics include properties of water, the hydrologic cycle, water law, water supply, groundwater, wetlands, dams and reservoirs, wastewater treatment, wastewater reuse, water treatment, urban stormwater management, and agricultural water management.

**ENEP 364 Research Internship**

This course provides students with the opportunity for research or service experience outside of the classroom setting with an organization in the field of energy and environmental policy. Based on the Research Internship experience, the student will write a research paper that will contribute to an advanced understanding of the topic area that the student intends to research and explore for his/her senior thesis. Students may choose to intern with a nonprofit, government or research organization in the field of energy and environmental policy or with a business that provides energy or environmental services. While students may research internship opportunities independently, students should consult with their faculty advisor about selecting an appropriate internship.

**ENEP 366 Independent Study**

The course is an in-depth independent study between a student and professor.
ENEP 402 Electricity Policy & Planning

The direction and organization of the electric power industry is influenced by physical/technical aspects, economic considerations and government policy and regulation. This course provides an overview of each of these key features of the electricity sector. The physical/technical system is described—going over how the system evolved and currently works, its components (generation, transmission, distribution, and retail services) and some relevant contemporary issues affecting its future (such as emissions, reliability, and new technologies). The course then examines the economics of the sector and teaches students basic tools to analyze economic performance. In the final section, students learn the rationale for regulation, the organization of the regulatory system, including the different actors in it, and recent developments (such as restructuring). In this section, the class also explores past and present policies which address the environmental, social, and economic concerns of society regarding this essential industry of the modern age.

ENEP 410 Environmental Sustainability: Economic and Policy Analysis - Also fulfills the “Social and Behavioral Sciences” Breadth Requirement and the Second Writing Requirement

Political economy is the interdisciplinary examination of the relationships between human societies and their resources; relationships which are often made complex by social, political, environmental and economic factors including cultural assumptions, government priorities, resource scarcity, environmental pollution and social inequity. This course investigates the political economy of the environment by considering the major theories that were developed over the last half century to explain nature and society relationships and fundamental issues confronting environmental sustainability at global and local scales.

ENEP/ENWC 413 Wildlife Policy and Administration

This course is an introduction to policy issues that relate to wildlife management and natural resources. Students will gain an understanding of current federal laws, treaties, statutes and regulations, federal agencies and policy formation related to wildlife and habitats in the Unites States. Students will debate the policies of current hot topics. Upon course completion, students will understand and be able to apply the basic principles of natural resource policy formation and implementation. The course aims to prepare students in a fundamental way to succeed as natural resource professionals.

ENEP 425 Energy Policy and Administration - Also fulfills the “Social and Behavioral Sciences” Breadth Requirement and the Second Writing Requirement

This course analyzes energy use and energy policy with respect to politics, society, economics, political economy, technology, resources, and environment. The course focuses on interrelationships among energy, environment, economy and equity (E4). It considers the energy policy options needed to achieve a more sustainable world. Students successfully completing this course will achieve an understanding of the major issues in energy policy. They will be prepared to conduct energy policy analysis and they will have a basic knowledge of energy concepts and energy systems.
ENEP 426 Climate Change Policy - Also fulfills the Second Writing Requirement. A request has been made for this course to fulfill the “Social and Behavioral Sciences Breadth Requirement”

This course reviews the science of climate change and explores existing policy responses. Specific attention is given to exploring the political and economic dimensions of current policy pathways in most of the world’s nations, which have yet to produce a meaningful response to the phenomenon of ever-increasing CO₂ emissions. Also explored are theoretical perspectives grounded in the discourses of sustainability and equity. The course examines opportunities for policy reform that can advance both meaningful CO₂ reductions and opportunities for wider socially beneficial outcomes.

ENEP 427 Sustainable Energy: Economics and Policy Analysis - Also fulfills the “Social and Behavioral Sciences” Breadth Requirement and the Second Writing Requirement

This course evaluates domestic and international energy policy and technological options critical to informing the development of sustainable energy policies and planning. Energy policy development and options are considered as part of their social, economic and environmental contexts in an interdisciplinary perspective that integrates scientific and social-science approaches to address energy consumption, efficiency, conservation, fuel choice and sustainability. This course provides students with a comprehensive overview of the main technologies, implementation programs and financing mechanisms that shape energy policy, as well as the issues that policy-makers must understand to promote sustainable energy in the future.

ENEP 466 Special Problem

The course is an in-depth independent study between a student and professor to provide students with the opportunity to investigate an energy or environmental policy area of their choice.

ENEP 468 Research in Energy and Environment - Also fulfills the Second Writing Requirement

The research course is an in-depth independent study between a student and professor to provide students with the opportunity to investigate an energy or environmental policy area of their choice. Through guided interaction with their professor, students will investigate this topic and write a research paper. Weekly or bi-weekly meetings must be scheduled with the professor in the first week of the semester in which the student enrolls in the course.

ENEP 470 Readings in Energy and Environment - Also fulfills the Second Writing Requirement

The readings course is an in-depth independent study between a student and professor to provide students with the opportunity to investigate an energy or environmental policy area of their choice. Through guided interaction with their professor, students will read an extensive body of literature on their topic, discuss these works with their professor and write a draft and final bibliographic essay. Weekly or bi-weekly meetings must be scheduled with the professor in the first week of the semester in which the student enrolls in the course.
**ENEP 472 Senior Thesis** – Also fulfills the Second Writing Requirement

The Senior Thesis course provides students with the opportunity to draw upon what they have learned in and beyond their work for the major. The work for this course is spread over two semesters of the student’s Senior Year. Students will investigate an energy or environmental policy area of their choice which has been developed as a result of their internship. Through guided interaction with their professor, students will investigate this topic and write a 35—50-page final Senior Thesis.

**Course Substitution Form**

Students must complete the Course Substitution Form and obtain the signature of their Concentration Advisor in order to substitute a course for a Required ENEP course. Following the approval of the Concentration Advisor, CEEP office staff will submit the required UD Course Substitution Form. The Course Substitution Form appears on page 20 of this Handbook and can be found on CEEP’s Website.

**Tutorial Course Registration (ENEP 466, 468 and 470)**

Students must complete and obtain the signature of the intended faculty instructor on the Tutorial Course Registration form prior to registering for these courses. CEEP office staff must complete registration for these courses on the behalf of the students. The Tutorial Course Registration form appears on page 21 of this Handbook and can be found on CEEP’s Website. Students planning to enroll in ENEP 468 or ENEP 470 must be enrolled during the Spring semester of the Student’s Junior year or Fall semester of Student’s Senior year.

**Preparing for Your Internship (ENEP 364)**

On pages 22 and 23, guidelines are provided for your Research Internship and Internship Paper, respectively. Please consult these guidelines before completing the Internship Course Registration Form (ENEP 364).

**Internship Course Registration (ENEP 364)**

Students must complete and obtain the signature of the intended faculty instructor on the Internship Course Registration form prior to registering for this course. CEEP office staff must complete registration for this course on the behalf of the students. The Internship Course Registration form appears on page 24 of this Handbook and can be found on CEEP’s Website.

**Preparing ENEP Majors to Design, Conduct and Write Research Papers**

Guidance information about the preparation process for ENEP Majors to design, conduct, and write research papers is given on page 25.

**Preparing and Defending Your ENEP 472 Paper**

Guidance information about preparing and defending Senior Thesis is given on page 29.
Senior Thesis Registration (ENEP 472)

Students must complete and obtain the signature of the intended faculty instructor on the Senior Thesis Registration form prior to registering for this course. CEEP office staff must complete registration for these courses on the behalf of the students. The Senior Thesis Registration form appears on page 31 and can be found on CEEP’s Website.
Course Substitution Form

Student Name: ________________________________________________

Student ID: _________________________________________________

Required Course that will be Substituted (Number and Title):
_____________________________________________________________

Substitute Course (Number and Title):
_____________________________________________________________

Justification for Substitution:

________________________________________________________________

________________________________________________________________

Student Signature: ____________________________________  Date:  ___________

Advisor Signature: _____________________________________  Date:  ___________
Bachelor of Science
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Center for Energy and Environmental Policy
University of Delaware
Undergraduate Tutorial Course Registration Form

ENEP 466
ENEP 468
ENEP 470

Semester of Tutorial: ___________________ Credit Hours: ___________________
Student Name: ________________________
Student ID: __________________________
Instructor Name: ______________________

Instructor Signature: ___________________

____________________________________

Summary of the Course Description

____________________________________

Bases for Grading:
The purpose of the Internship is for the student to develop a research paper that will contribute to an advanced understanding of the topic area in which the student intends to write his/her ENEP 472 Senior Thesis.

This Research Internship course is designed to provide students with the opportunity for experience outside of the classroom setting with an organization in the field of energy and environmental policy.

The internship fulfills the University requirement for the Discovery Learning Experience through a planned and supervised learning opportunity to fulfill the educational competencies of the student's concentration and of the major.

Students may choose to intern with a nonprofit, government or research organization in the field of energy and environmental policy or with a business that provides energy or environmental services.

In order to fulfill the Research Internship credit, students must:

1. Contact their Concentration Advisor no later than the third week of September of their Junior year to begin the process of identifying an appropriate Internship. CEEP will hold an information session for Junior ENEP students during the first week of September in advance of the meetings with the Concentration Advisors.

2. Have their internship approved by their Advisor. This includes the submission of a one-page, typed description of the proposed internship with a clear indication of the value of the expected research or service to the preparation of the student's Senior Thesis.

3. Complete at least 120 hours of internship work.

4. Prepare an outline for and write a 12—15 page paper (double-spaced) detailing their research or service experience. The outline of the paper must be approved by the student’s Advisor prior to completing the final paper.

Please note that the grade for ENEP 364 is not based on the time spent at an agency or a business during the internship. The grade is based on the outline of the ENEP 364 paper and the final paper prepared by the student. The outline of the ENEP 364 paper must be submitted to the Concentration Advisor for review and approval prior to preparing the final paper.
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University of Delaware

ENEP 364
Internship Paper Guidelines

Your paper should include the following:

• Description of the relevance of the internship to your research for the Senior Thesis (ENEP 472). This can include: data collection; case study material; experience with technology, markets or policy; etc. that improves your understanding of your research area.

• Energy and/or environmental components of the internship that you were involved with. Be specific, utilizing data or other information from your internship (graphs or data tables may help you to present this information).

• Significance of these energy and/or environmental components within a theoretical or conceptual framework. Utilize materials from your ENEP classes to assist you in linking your internship experience with broader research concerns.

The outline of the ENEP 364 paper must be submitted to the Concentration Advisor for review and approval. Once the outline has been approved by the Concentration Advisor, the student should prepare the Internship Research Paper.

A minimum of 10 academic sources, including books and journal articles that you have read for your ENEP courses, or outside reading material, should supplement your discussion. These sources should be cited in the text and included in a reference list at the end of your paper.

Your paper should be well-organized, with an introductory paragraph that provides a "thesis statement" and explains how the paper will be organized, a body comprised of well-constructed paragraphs, and a conclusion. The body of the essay should include separate sections with section headings on: 1) your internship purpose; 2) the energy and/or environmental components of the internship that you were involved with; and 3) the significance of these energy and/or environmental components within a theoretical or conceptual framework.

Internship papers should be 12—15 pages in length, double spaced in 12pt. font. Papers are due in hard copy (printed), and should not be emailed.
ENEP

Semester of Internship:  Credit Hours:

Intern Information

Intern’s Name:  Intern’s telephone number:
Intern’s major/minor/concentrations:  Intern’s email address:
Intern’s UDSIS number:

Internship Description

Position Title:
Organization Providing Internship:
Organization Mailing Address:

Name of Site Supervisor:
Site Supervisor’s Title:

Site Supervisor’s Telephone Number:
Site Supervisor’s Email Address:

Site Supervisor’s Signature: ____________________________

Dates of Internship:  ___________________ Approximate Hours of Work per Week:  _______

Brief Description of Tasks:

Anticipated Benefit to Intern:

Concentration Advisor’s Signature: ___________________ Date: ______
Intern's Signature: ____________________________ Date: ______
Preparing ENEP Majors to Design, Conduct and Write Research Papers

The ENEP major was created from the experience of the faculty at the Center for Energy & Environmental Policy who have administered master’s (MEEP) and PhD (PhD-ENEP) degrees for more than 20 years. The major finishes with a 6-credit Senior Research Paper (ENEP 472) defended before two Program Faculty members who must be from different departments. The Senior Thesis is expected to be 35-50 pages in length (double-spaced). All students enrolled in the major must complete and defend their Senior Thesis in order to graduate.

The Senior Thesis requirement grows out of two findings of the Program Faculty:

1. The major prepares graduates to enter private, public and non-profit organizations seeking analytically trained individuals. The demand for individuals trained in the field is mainly to fill policy/regulatory analyst, researcher and program evaluation positions. Often, organizations are looking for individuals who have a basic or better understanding of the underlying science and engineering aspects of energy and environmental challenges and who also have training in economic and policy analysis, with an ability to advise decision makers, through objective analysis, of the appropriate courses of action.

2. Students accepted into the MEEP degree program over the last 20 years who defended theses in order to graduate performed noticeably better than counterparts with similar academic records but who did not have this skill at graduation. The Program Faculty see the major as preparation for graduate study for a sizable percentage of graduates and, therefore, inclusion of this requirement improves the competitiveness of its graduates.

To prepare students for the several skills needed to succeed in the field, the Program Faculty built into the major distinct activities for students to learn how to design and conduct research and to write high-quality policy/economic/technical research papers. The defended Senior Thesis is the outgrowth of these activities. They are as follows:

- Completing ENEP courses designed to fulfill second writing requirements – all 400-level ENEP courses include writing requirements that meet the University second-writing requirement. These include:
o ENEP 410 (3 cr): Environmental Sustainability: Economic and Policy Analysis – requires a 12-15 pp. book review. In consultation with a CEEP graduate student (who provides in-class and out-of-class training on how to prepare the book review) assigned to the course, students select a book from a published list (all are research-based), prepare an outline, submit a draft and then submit a final paper (accounting for 30% of their grade).

o ENEP 425 (3 cr): Energy Policy and Administration – requires a 10-12 pp. final paper on a subject involving at least one thematic section of the course. Preparation of the paper occurs in consultation with the CEEP graduate student assigned to the course for this purpose. At least two out-of-class meetings with the graduate student are required. The final paper accounts for 25% of their grade).

o ENEP 426 (3 cr): Climate Change Policy – requires two research essays of 7-8 pp. each and the completion of a spreadsheet analysis of the UD carbon footprint based on data provided to them. An in-class presentation of each student’s spreadsheet reports on 4 topics – the estimated carbon content of the University’s energy supply, the estimated carbon content of the University’s vehicle fleet and commuters (faculty, staff and students), the carbon impact of the University’s building stock and associated plug loads, and the estimated effects of specified University policy changes. Together, these activities account for 85% of the final course grade.

o ENEP 427 (3 cr): Sustainable Energy: Economics and Policy Analysis – requires a 17-20 pp. research paper and a poster. Students are graded on their research proposal, their research outline, their final paper, their poster, and their in-class presentation of their poster. Together these separately graded activities comprise 50% of the final course grade. Students work with two CEEP graduate students assigned to the course.

Students in each concentration of the major take at least 3 of the second-writing courses listed above. Honors students must write more advanced research papers, and in ENEP 427 (formerly ENEP 424) prepare more than one conference poster.

• Completing a Research Internship (ENEP 364) – all students in the major are required to complete a research internship for 3 credits. In order to register for the course, each student must complete a form and obtain their faculty advisor’s signature. On the form, the student defines the nature of the research activity, the organizational host and the benefits to the student’s program of study. A 12—15 page paper, developed with the student’s faculty advisor, is the main basis for the final course grade. Internships are developed in one of three ways:

  o Option 1: a) Students identify the proposed topic(s) of their undergraduate research to their advisor; b) The advisor indicates whether s/he has industry, government or other contacts in the student’s area of interest and suggests
an application process by the student with the support of the advisor; if the advisor does not have relevant contacts, c) the student's interest is communicated to CEEP's director and associate director who identify contacts for the student.

- Option 2: In parallel, the student can explore on the Internet and elsewhere opportunities and then elicit the assistance of their advisor and, if needed, the Center's director and associate director.
- Option 3: The student reviews the annually published CEEP Research Portfolio (which contains 12-17 research projects) and decides if volunteering on any of the projects would meet their needs for a research internship. If yes, they can volunteer, for a CEEP project, with the support of their advisor.

- Completing a Readings Tutorial (ENEP 470) – Some students in the major complete a 3-credit tutorial with a faculty expert for the purpose of preparing a draft of the research literature review that can be used in the Senior Thesis. Depending upon the type of research a student has selected, it is possible to select a 3-credit Research Tutorial (ENEP 468) instead of the Readings Tutorial. Both tutorials include a 10-12 pp. paper which accounts for the bulk of the final course grade. Prior permission to enroll in the tutorial is required.

With this preparation, the student then enrolls in ENEP 472, the Senior Thesis course for 6 credits, and, with their committee’s advice, prepares the Senior Thesis. Students enroll for 6 credits in their senior year, typically either in the previous Summer Session or Fall Semester for students who plan to graduate in the Spring. Students normally will receive an 'S' grade until defense of the paper occurs during the Semester they are graduating.

As a widely recognized hallmark of undergraduate distinction, a Senior Thesis demonstrates to graduate schools, fellowship committees, and employers a student’s intellectual achievement and sophistication as well as their initiative and self discipline.

As the capstone of their undergraduate experience, a Senior Thesis provides students with the opportunity to draw upon what they have learned in and beyond their work for the major and to make a significant contribution of their own. Students who complete a Senior Thesis may earn either a Degree with Distinction (DwD) or—if they are pursuing an Honors Degree—they will earn an Honors Degree with Distinction (HDwD). Requirements for earning the DwD or the HDwD include the successful research, writing, and defense of the 6-credit ENEP 472, and meeting certain GPA and course requirements outlined on the URP website. The University Undergraduate Research Program has agreed to accept senior theses written for ENEP 472 in lieu of the UNIV 401-402 sequence.
Students enrolled in ENEP 472 will also have the same opportunities as students enrolled in the University’s senior research thesis courses (UNIV 401 & 402) to participate in additional activities, which include the following:

1. *Attending an orientation session at the beginning of each semester.

2. *Presenting their work to a small group of students twice a year, once in the fall, and again in the spring. Students in ENEP 472 may also have the option of attending another group’s presentations and providing those students with feedback on their work.

3. Attending a session demonstrating how to format a Paper (e.g., incorporating figures, tables, and graphs into a paper). Sessions are held twice in the fall and twice in the spring; students only have to attend one session.

4. Attending and having the option to present their work at the Senior Research Thesis Symposium, held on the first Saturday each May.

5. Receiving a graduation medal for their Senior Thesis. The medal signifies the student has earned a Degree with Distinction, which is an enriched degree indicating a student’s success in researching, writing, and defending their work, and the meeting of specific GPA requirements.

6. Students who complete ENEP 472 have the option of depositing their Senior Thesis into the University’s institutional repository, an online archive that makes the student’s work publicly accessible. (Note: this is not mandatory. Students must opt in by granting the URP permission to deposit their work, and students retain copyright of their work.)

*The orientation session and the presentations are scheduled for Monday afternoons from 3:35 pm – 5:30 pm. If students enrolled in ENEP 472 would like to participate in these sessions, they may want to keep their Monday afternoon class time (3:35 pm – 5:30 pm) open on their schedule.
Preparing and Defending Your ENEP 472 Senior Thesis

Preparing the ENEP 472 Paper

The 6-credit ENEP 472 Senior Thesis consists of the following:

3. Background on the Problem (including a literature review) – typically -8--10 pp.
4. Description of the Research Undertaken by the Student (including a description of data, methods and key concepts guiding their research) – typically 10—12 pp.
5. Presentation of the Student's Analysis (including figures, tables, models, etc.) – typically 10-18 pp.
7. Recommendations (for example to public policy, to organization decision makers, etc.) – typically 4-5 pp.
8. List of References – typically 30 or so references are expected (4-8 pp.)

Ordinarily, an ENEP 472 paper will be prepared in draft form at least one full month before the anticipated defense date and will undergo at least one revision defined by the student’s faculty advisor.

The defense version of the ENEP 472 paper must be provided to the student’s advisor and the second faculty member of the student’s committee. Details on who is eligible to serve on the 2-faculty member committee are given in the file referenced above.

The defense version of the ENEP 472 paper must be furnished to committee members at least five (5) business days in advance of the defense date.

Defense of the ENEP 472 Paper

The student should prepare a 10-15 minute presentation of his or her ENEP 472 paper. It should include:

1. A clear and concise statement of the thesis, approved in advance of the defense by the faculty advisor (who also serves as chair of the defense).
2. Identification of the key concepts and methods used to analyze the thesis.
3. The data used in the analysis. This can include empirical data, documents analyzed, research or other literature examined, survey/interview results, or case study material prepared for the analysis of the thesis.

4. A statement of the key findings of the ENEP 472 paper.

PowerPoint, Prezi and SlideRocket are recommended as methods of delivering the 10-15 minute presentation, but none is required. A PowerPoint presentation should have a maximum of 12 slides.

CEEP’s logo should be used on the opening slide and can be included on each slide.

Students should arrive at least 15 minutes in advance to set up the presentation. Students must bring their own equipment to run the presentation.

Scheduling a room for the defense of the paper is the responsibility of the student. Mayuri Utturkar (mayuri@udel.edu), a PhD candidate at CEEP, can assist with scheduling. In some cases, CEEP’s Conference Room can be used for this purpose, with the approval of the Director (please provide at least two option dates and times approved by the student’s advisor to Mayuri, who will seek the Director’s approval). Use of the CEEP Conference Room for this purpose is ordinarily restricted to mornings between 9 am and 11:45 am.
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Center for Energy and Environmental Policy
University of Delaware

Senior Thesis Registration Form (ENEP472)

Student Name: ________________________________________________

Student ID: ________________________________________________

Semester of Research Paper: ________________________________________________

Concentration Advisor: ________________________________________________

Committee Members: ________________________________________________

Research Topic:

Outline of Research Paper (Attach additional pages as necessary.)

*ENEP364 should be completed prior to registering for ENEP472.*
Please indicate Semester when ENEP364 was completed: _________________

Advisor Signature: _________________________________ Date: __________________

31
**Plan of Study: General**

**Notes:**
* Indicates a course which can fulfill a Breadth Requirement
^ Indicates a course which can fulfill a Second Writing Requirement

**Courses to Take in the First Year**
Certain courses are designed to be taken during freshman year to assist students in developing the knowledge and skills needed to succeed as a college student. These are:

* ECON 101 Introduction to Microeconomics (3 credits)
  ENEP 117 Science, Society and Energy (1 credit)
* ENEP 250 Introduction to Energy Policy (3 credits)
  ENGL 110 Critical Reading and Writing (3 credits)
  * GEOG 236 Conservation of Natural Resources: Global Issues (3 credits)

To fill out the remaining courses for your freshman year, select 100- or 200-level classes that fulfill breadth requirements or concentration requirements. 100- and 200-level courses are designed to be introductory, and are therefore most appropriate for first-year college students.

**Courses to Take in the Second Year**
The following courses are most appropriate for sophomore students. These courses build upon the knowledge and skills of freshman courses, and continue to assist students in developing the tools needed to succeed as an upper-classman.

  * PHYS 143 Energy, Technology and Society (3 credits)
  **^ ENEP 410 Environmental Sustainability: Economic and Policy Analysis (3 credits)

**Courses to Take in the Third Year**
The following courses should be taken during the junior year to help students prepare for the Senior Thesis.

  ENEP 364 Internship
  **^ ENEP 425 Energy Policy and Administration (3 credits)
  ^ ENEP 427 Sustainable Energy: Economics and Policy Analysis (3 credits)

**Courses to Take in the Fourth Year**
The following courses should be reserved for the student’s senior year.

  CHEG 625 Green Engineering (3 credits)
  ^ ENEP 426 Climate Change Policy
  ^ ENEP 468 or ENEP 470 Research in Energy and Environment (3 credits) (EES Concentration)
  ^ ENEP 472 Senior Thesis (6 credits)
### PLAN OF STUDY: SPECIFICS

**CURRICULUM SPECIFICS FOR THE CONCENTRATION IN ENERGY, ENVIRONMENT AND SOCIETY (EES)**

#### Advanced Course Requirement (ACR)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACR</td>
<td>ENEP 410 Environmental Sustainability: Economic and Policy Analysis (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>or</td>
<td>POSC 350 Politics and the Environment (Spring)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACR</td>
<td>ENEP 426 Climate Change Policy (Spring)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACR</td>
<td>APEC 343/ ECON 343 Environmental Economics (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACR</td>
<td>ECON 300 Intermediate Microeconomic Theory (Fall)</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

**12 credits**

#### Advanced Course Elective (ACE)

**Science/Methods Menu (ACE)**

12 credits are to be chosen from the list below to satisfy this part of the ACE requirement. Other courses can be added with the approval of the advisor.

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACE</td>
<td>ENEP 420 Water Resources Management (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE</td>
<td>BISC 321 Environmental Biology (Spring)*</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE</td>
<td>CIEG 402 Introduction to Sustainability Principles in Civil Engineering (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE</td>
<td>ECON 422 Econometric Methods &amp; Models I (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE</td>
<td>ENWC 201 Wildlife Conservation and Ecology (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE</td>
<td>ENWC 325 Wildlife Management (Spring)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE</td>
<td>ENWC 456 Conservation Biology (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE</td>
<td>GEOG 271 Introduction to Geographic Data Analysis (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE</td>
<td>GEOG 372 Introduction to GIS (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE</td>
<td>GEOG 412 Physical Climatology (Spring)</td>
<td>4 credits</td>
</tr>
<tr>
<td>ACE</td>
<td>MATH 201 Introduction to Statistical Methods I (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE</td>
<td>MATH 202 Introduction to Statistical Methods II (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE</td>
<td>MATH 221 Calculus 1 (Fall)</td>
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</tr>
<tr>
<td>ACE</td>
<td>MATH 241 Analytical Geometry and Calculus A (Fall)</td>
<td>4 credits</td>
</tr>
<tr>
<td>ACE</td>
<td>STAT 408 Statistical Research Methods I (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE</td>
<td>STAT 470 Introduction to Statistical Analysis I (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE</td>
<td>STAT 471 Introduction to Statistical Analysis II (Spring)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE</td>
<td>STAT 475 Environmental Statistics (Spring)</td>
<td>3 credits</td>
</tr>
</tbody>
</table>

**24 credits**

* May not be taught in Spring 2016. Please check course catalogue by November 2015 to confirm.
24 credits are to be chosen from the list below to satisfy this part of the ACE requirement. Other courses can be added with the approval of the advisor.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACE ENEP 366</td>
<td>Independent Study (Spring)</td>
<td>1-3</td>
</tr>
<tr>
<td>ACE ENEP 402</td>
<td>Electricity Policy and Planning (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE ENEP 413/ENWC413</td>
<td>Wildlife Policy and Administration (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE ENEP 468</td>
<td>Research in Energy and Environment (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE ENEP 470</td>
<td>Readings in Energy and Environment (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE APEC 324</td>
<td>Introduction to Resource Economics (Spring)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE APEC 406</td>
<td>Agricultural and Natural Resource Policy (Spring)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE APEC 450</td>
<td>Topics in Environmental Law (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE ENGL 365</td>
<td>Environmental Non-Fiction (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE HIST 223</td>
<td>Nature and History (Spring)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE HIST 337</td>
<td>Topics in American History (Spring)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE PHIL 448</td>
<td>Environmental Ethics (Spring)</td>
<td>3 credits</td>
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<tr>
<td>ACE POSC 311</td>
<td>Politics of Developing Nations (Fall)</td>
<td>3 credits</td>
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<tr>
<td>ACE POSC 316</td>
<td>International Political Economy (Spring)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE SOCI 470</td>
<td>Environmental Sociology (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE SOCI 471</td>
<td>Disasters, Vulnerability and Development (Spring)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE UAPP 325</td>
<td>Public Policy Analysis (Spring)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE UAPP 406/GEOG 434</td>
<td>Plan Sustainable Communities &amp; Regions (Spring)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE Foreign Language (up to 8 credits)</td>
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<td>8 credits</td>
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</table>
## Plan of Study: Specifics

### CURRICULUM SPECIFICS FOR THE CONCENTRATION IN ENERGY, SCIENCE AND TECHNOLOGY (EST)

#### Advanced Course Requirement (ACR) 18 credits
- ACR ENEP 426 Climate Change Policy (Spring) 3 credits
- ACR CHEM 103 General Chemistry (Fall) 4 credits
- ACR ECON 300 Intermediate Microeconomic Theory (Fall) 3 credits
- ACR MATH 241 Analytic Geometry and Calculus A (Fall) 4 credits
- ACR PHYS 201 Introductory Physics I (Fall) 4 credits

#### Advanced Course Elective (ACE) 30 credits
30 credits are to be chosen from the list below to satisfy the ACE requirement. Other courses can be added with the approval of the advisor.

- ACE ENEP 420 Water Resources Management (Fall) 3 credits
- ACE ENEP 366 Independent Study (Fall and Spring) 1-3 credits
- ACE ENEP 402 Electricity Policy and Planning (Fall) 3 credits
- ACE ENEP 410 Environmental Sustainability: Economic and Policy Analysis (Fall) 3 credits
- ACE ENEP 413/ENWC 413 Wildlife Policy and Administration (Fall) 3 credits
- ACE ENEP 468 Research in Energy and Environment (Fall) 3 credits
- ACE ENEP 470 Readings in Energy and Environment (Fall) 3 credits
- ACE APEC 343/ECON 343 Environmental Economics (Fall) 3 credits
- ACE BUAD 301 Introduction to Marketing (Fall) 3 credits
- ACE BUAD 472 Marketing, Society and the Environment (Fall) 3 credits
- ACE CHEM 104 General Chemistry II (Fall) 4 credits
- ACE CIEG 402 Introduction to Sustainability Principles in Civil Engineering (fall) 3 credits
- ACE ECON 311 Economics of Developing Countries (Fall) 3 credits
- ACE ELEG415/ELEG 615 Electric Power and Renewable Energy Systems (Fall) 3 credits
- ACE ELEG 491 Ethics/Impacts of Engineering (Spring) 3 credits
- ACE GEOG 271 Introduction to Geographic Data Analysis (Fall) 3 credits
- ACE GEOG 372 Introduction to GIS (Fall) 3 credits
- ACE GEOG 412 Physical Climatology (Spring) 4 credits
- ACE MATH 242 Analytic Geometry and Calculus B (Fall) 4 credits
- ACE MEEG 435 Wind Power Engineering (Spring) 3 credits
- ACE MEEG 442 Introduction to Fuel Cells (Fall) 3 credits
<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Semester</th>
<th>Credits</th>
</tr>
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<tbody>
<tr>
<td>ACE STAT 200</td>
<td>Basic Statistical Practice (Fall and Spring)</td>
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<tr>
<td>ACE STAT 470</td>
<td>Introduction to Statistical Analysis I (Fall)</td>
<td>3 credits</td>
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<tr>
<td>ACE STAT 471</td>
<td>Introduction to Statistical Analysis II (Spring)</td>
<td>3 credits</td>
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<tr>
<td>ACE UAPP 325</td>
<td>Public Policy Analysis (Spring)</td>
<td>3 credits</td>
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</tr>
<tr>
<td>ACE UAPP 406/</td>
<td>Plan Sustainable Communities &amp; Regions (Spring)</td>
<td>3 credits</td>
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<td>GEOG 434</td>
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<tr>
<td>ACE Foreign Language (up to 8 credits)</td>
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<td>8 credits</td>
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</table>

* May not be taught in Spring 2016. Please check course catalogue by November 2015 to confirm.
Plan of Study: Specifics

CURRICULUM SPECIFICS FOR THE CONCENTRATION IN
ENERGY, ECONOMICS AND PUBLIC POLICY (EEP)

<table>
<thead>
<tr>
<th>Advanced Course Requirement (ACR)</th>
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<tbody>
<tr>
<td>ACR ENEP 402 Electricity Policy and Planning (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACR ENEP 410 Environmental sustainability: Economic and Policy Analysis (Fall)</td>
<td>3 credits</td>
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<tr>
<td>ACR APEC 343/ ECON 343 Environmental Economics (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACR ECON 300 Intermediate Microeconomic Theory (Fall)</td>
<td>3 credits</td>
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</table>

One of the following or an approved Substitute:
A 400-level course applicable to the Energy, Economics and Public Policy Concentration as approved in advance by the Concentration Advisor.

One of the following:
ACR ECON 422 Econometric Methods and Models I (Fall) 3 credits
ACR MATH 201 Introduction to Statistical Methods (Fall) 3 credits
ACR STAT 200 Basic Statistical Practice (Fall and Spring) 3 credits
ACR STAT 408 Statistical Research Methods (Fall) 3 credits
ACR STAT 470 Introduction to Statistical Analysis (Fall) 3 credits

Advanced Course Elective (ACE) 30 credits

30 credits are to be chosen from the list below to satisfy the ACE requirement. Other courses can be added with the approval of the advisor.

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<thead>
<tr>
<th>ACE ENEP 420</th>
<th>Water Resources Management (Fall)</th>
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<tbody>
<tr>
<td>ACE ENEP 413/ ENEC 413</td>
<td>Wildlife Policy and Administration (Fall)</td>
<td>3 credits</td>
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<tr>
<td>ACE ENEP 426</td>
<td>Climate Change Policy (Spring)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE APEC 406</td>
<td>Agricultural and Natural Resource Policy (Spring)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE BUAD 301</td>
<td>Introduction to Marketing (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE BUAD 472</td>
<td>Marketing, Society and the Environment (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE CIEG 402</td>
<td>Introduction to Sustainability Principles in Civil Engineering (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE ECON 103</td>
<td>Introduction to Macroeconomics (Fall)</td>
<td>3 credits</td>
</tr>
<tr>
<td>ACE ECON 311</td>
<td>Economics of Developing Countries (Fall)</td>
<td>3 credits</td>
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<tr>
<td>ACE ECON 360</td>
<td>Government Regulation of Business (Fall)</td>
<td>3 credits</td>
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<tr>
<td>ACE ECON 422</td>
<td>Econometric Methods &amp; Models I (Fall)</td>
<td>3 credits</td>
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<td>Course Title</td>
<td>Semester</td>
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<td>ACE ECON 426</td>
<td>Mathematical Economic Analysis (Spring)</td>
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<td>ACE ECON 463</td>
<td>Economics of Regulation (Spring)</td>
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<td>ACE GEOG 271</td>
<td>Introduction to GIS (Fall)</td>
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<tr>
<td>ACE GEOG 372</td>
<td>Geographic Information Systems (Fall)</td>
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<tr>
<td>ACE GEOG 412</td>
<td>Physical Climatology (Spring)</td>
<td></td>
</tr>
<tr>
<td>ACE MATH 201</td>
<td>Introduction to Statistical Methods I (Fall)</td>
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</tr>
<tr>
<td>or STAT 200</td>
<td>Basic Statistical Practice (Fall and Spring)</td>
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</tr>
<tr>
<td>ACE MATH 202</td>
<td>Introduction to Statistical Methods II (Fall)</td>
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<tr>
<td>ACE MATH 221</td>
<td>Calculus 1 (Fall)</td>
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<tr>
<td>ACE MATH 241</td>
<td>Analytical Geometry and Calculus A (Fall)</td>
<td></td>
</tr>
<tr>
<td>ACE MATH 242</td>
<td>Analytical Geometry and Calculus B (Fall)</td>
<td></td>
</tr>
<tr>
<td>ACE POSC 301</td>
<td>State and Local Government (Spring)</td>
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<tr>
<td>ACE POSC 311</td>
<td>Politics of Developing Nations (Fall)</td>
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</tr>
<tr>
<td>ACE POSC 316</td>
<td>International Political Economy (Spring)</td>
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<tr>
<td>ACE STAT 470</td>
<td>Introduction to Statistical Analysis I (Fall)</td>
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<td>ACE STAT 471</td>
<td>Introduction to Statistical Analysis II (Spring)</td>
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<tr>
<td>ACE UAPP 325</td>
<td>Public Policy Analysis (Spring)</td>
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<tr>
<td>ACE UAPP 406/</td>
<td>Plan Sustainable Communities &amp; Regions*</td>
<td></td>
</tr>
<tr>
<td>GEOG 434</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* May not be taught in Spring 2016. Please check course catalogue by November 2015 to confirm.
Example Plans of Study for Each Concentration

The plans of study for each concentration demonstrate an example of the types of courses that students could enroll in for each year. Students may take courses in another sequence, or may choose to take different courses to fulfill their concentration requirements. Students must consult with their faculty advisor to decide on their actual plan of study. There are many options for completing each concentration.

Energy, Environment and Society (EES)

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Year</td>
<td>ENEP 117 (1 credit) (FYE) ECON 101 (3 credits) *</td>
<td>ENGL 110 (3 credits)</td>
</tr>
<tr>
<td></td>
<td>UAPP 225 (3 credits) *</td>
<td>STAT 201 (3 credits) *</td>
</tr>
<tr>
<td></td>
<td>MATH 115 or MATH 221 (3 credits) *</td>
<td>ENEP 250 (3 credits) *</td>
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<td>Breadth Requirement 1 (4 credits)</td>
<td>Breadth Requirement (3 credits)</td>
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<tr>
<td></td>
<td></td>
<td>Advanced Course Elective (3 credits)</td>
</tr>
<tr>
<td>Second Year</td>
<td>PHYS 143 (3 credits) *</td>
<td>PHIL 448 (3 credits)</td>
</tr>
<tr>
<td></td>
<td>GEOG 236 (3 credits) *</td>
<td>Multi-Cultural Requirement (3 credits)</td>
</tr>
<tr>
<td></td>
<td>GEOG 372 (3 credits) *</td>
<td>Breadth Requirement (3 credits)</td>
</tr>
<tr>
<td></td>
<td>ENEP 410 (3 credits) *</td>
<td>Electives/Adv. Course Electives (6 credits)</td>
</tr>
<tr>
<td></td>
<td>Breadth Requirement (3 credits)</td>
<td></td>
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<tr>
<td>Third Year</td>
<td>ECON 300 (3 credits) *</td>
<td>APEC 343 (3 credits) *</td>
</tr>
<tr>
<td></td>
<td>ENEP 413 (3 credits) *</td>
<td>ENEP 427 Breadth (3 credits)</td>
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<tr>
<td></td>
<td>ENEP 425 (3 credits) *</td>
<td>Breadth Requirement (3 credits)</td>
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<td>Advanced Course Electives (6 credits)</td>
<td>Advanced Course Electives (6 credits)</td>
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<tr>
<td>Summer</td>
<td>ENEP 364 (3 credits)</td>
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<tr>
<td>Fourth Year</td>
<td>HIST 337 (3 credits)</td>
<td>ENEP 426 (3 credits)</td>
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<td></td>
<td>ENEP 472 (6 credits)</td>
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<td>ENEP 468 or 470 (3 credits)</td>
<td>CHEG 625 (3 credits)</td>
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<td>Advanced Course Elective (3 credits)</td>
<td>GEOG 422 (3 credits)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Breadth Requirement/Elective (3 credits)</td>
</tr>
</tbody>
</table>

* May fulfill Breadth Requirement

1 You have the option of filling this slot with a 3-credit Breadth Requirement and taking a 4-credit lab course in a later semester.

2 ENEP 410, 425, 426, 427, 468, 470, or 472 fulfill the Second Writing Class requirement.
<table>
<thead>
<tr>
<th></th>
<th>Fall Semester</th>
<th>Spring Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>First Year</strong></td>
<td>ENEP 117 (1 credit) (FYE)</td>
<td>ENGL 110 (3 credits)</td>
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<td>Breadth Requirement ¹ (4 credits)</td>
<td>ENEP 250 (3 credits) *</td>
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<td></td>
<td>ECON 101 (3 credits) *</td>
<td>CHEM 103 (4 credits) *</td>
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<td></td>
<td>UAPP 225 (3 credits) *</td>
<td>MATH 242 (4 credits) *</td>
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<td>MATH 241 (4 credits)*</td>
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<td><strong>Second Year</strong></td>
<td>Breadth Requirements (6 credits)</td>
<td>Breadth Requirements (3 credits)</td>
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<td>PHYS 143 (3 credits) *</td>
<td>CHEM 104 (4 credits) *</td>
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<td>STAT 470 (3 credits)</td>
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<td>Advanced Course Elective (3 credits)</td>
<td>Advanced Course Elective (3 credits)</td>
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<tr>
<td><strong>Third Year</strong></td>
<td>ENEP 420 (3 credits)</td>
<td>ENEP 426 (3 credits) *</td>
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<td>Multicultural Requirement (3 credits)</td>
<td>CHEG 625 (3 credits)</td>
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<td>ENEP 427 (3 credits)</td>
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<td>GEOG 236 (3 credits) *</td>
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<td></td>
<td>ELEG 415 (3 credits)</td>
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<tr>
<td><strong>Summer</strong></td>
<td>ENEP 364 (3 credits)</td>
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<tr>
<td><strong>Fourth Year</strong></td>
<td>APEC 343 (3 credits)</td>
<td>ENEP 426 (3 credits) *</td>
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<td></td>
<td>ENEP 410 (3 credits) *</td>
<td>CHEG 625 (3 credits)</td>
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<td></td>
<td>ENEP 425 (3 credits)</td>
<td>ENEP 427 (3 credits)</td>
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<tr>
<td></td>
<td>ENEP 472 (6 credits)</td>
<td>Breadth Requirements/Electives (6 credits)</td>
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</table>

* May fulfill Breadth Requirement

¹ You have the option of filling this slot with a 3-credit Breadth Requirement and taking a 4-credit lab course in a later semester.

² ENEP 410, 425, 426, 427, or 472 fulfill the Second Writing Class requirement.
# Energy, Economics and Public Policy (EEP)

<table>
<thead>
<tr>
<th></th>
<th>Fall Semester</th>
<th>Spring Semester</th>
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<tbody>
<tr>
<td><strong>First Year</strong></td>
<td>ENEP 117 (1 credit) (FYE)</td>
<td>ENGL 110 (3 credits)</td>
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<td>Breadth Requirements (6 credits)</td>
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<td></td>
<td>ECON 101 (3 credits) *</td>
<td>MATH 201 (3 credits)</td>
</tr>
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<td></td>
<td>UAPP 225 (3 credits) *</td>
<td>ENEP 250 (3 credits)</td>
</tr>
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<td>MATH 115 or MATH 221 (3 credits)*</td>
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<td>Breadth Requirement (3 credits)</td>
<td>Breadth Requirements/Electives (9</td>
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<td></td>
<td>GEOG 236 (3 credits) *</td>
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<td></td>
<td>ECON 300 (3 credits)</td>
<td>ECON 311 (3 credits)</td>
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<td>PHYS 143 (3 credits) *</td>
<td>GEOG 372 (3 credits)</td>
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<td>BUAD 301 (3 credits) *</td>
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<tr>
<td><strong>Third Year</strong></td>
<td>Multicultural Requirement (3</td>
<td>Breadth Requirements (6 credits)</td>
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<td>credits)</td>
<td>APEC/ECON 343 (3 credits) *</td>
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<td>Advanced Course Electives (6</td>
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<td>ECON 360 (3 credits)</td>
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<td>ENEP 410 (3 credits)</td>
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<td>ENEP 402 (3 credits)</td>
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<td><strong>Summer</strong></td>
<td>ENEP 364 (3 credits)</td>
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</tr>
<tr>
<td><strong>Fourth Year</strong></td>
<td>ENEP 413 (3 credits)</td>
<td>ENEP 426 (3 credits)</td>
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<tr>
<td></td>
<td>ENEP 425 (3 credits)</td>
<td>CHEG 625 (3 credits)</td>
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<td></td>
<td>ENEP 472 (6 credits)</td>
<td>ENEP 427 (3 credits)</td>
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<td>Advanced Curriculum Elective (3</td>
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<td>credits)</td>
<td>Advanced Course Elective (3</td>
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<tr>
<td></td>
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<td>credits)</td>
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</tbody>
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* May fulfill Breadth Requirement

1. ENEP 410, 425, 426, 427, 468, 470, or 472 fulfill the Second Writing Class requirement.
### Energy, Environment and Society (EES)

125 credits required to graduate

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course</th>
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<th>Semester</th>
<th>Grade</th>
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<td>ENEP 117</td>
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<td></td>
<td>ENEP 364</td>
<td>3</td>
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<td></td>
<td>Multicultural(^1)</td>
<td>3</td>
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<tr>
<td>Breadth Group Requirements (31 credits)</td>
<td>Creative Arts and Humanities</td>
<td>9</td>
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<td></td>
<td>History and Cultural Change</td>
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<td>Social and Behavioral Sciences</td>
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<td>Mathematics, Natural Science, and Technology</td>
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<tr>
<td>Major Requirements (18 credits)</td>
<td>2(^{\text{nd}}) Writing</td>
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<td>ENEP 250</td>
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<td>PHYS 143</td>
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<td>GEOG 236</td>
<td>3</td>
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<tr>
<td>Advanced Course Requirement (ACR) (12 credits)</td>
<td>ENEP 410 or POSC 350</td>
<td>3</td>
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<td>ENEP 426</td>
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<td>Advanced Course Elective (ACE) (24 credits)</td>
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<td>Social Science</td>
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<tr>
<td>Capstone Courses (12 credits)</td>
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<td>3</td>
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<td>CHEG 625</td>
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<td>GEOG 422</td>
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<td>Senior Thesis</td>
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<tr>
<td>Electives</td>
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</tbody>
</table>

\(^1\) Some Multicultural courses can also count as fulfillment of certain Group A, B or C Breadth Requirements.
## COURSE REQUIREMENTS WORKSHEET

### Energy, Science and Technology (EST)

125 credits required to graduate

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course</th>
<th>Credits</th>
<th>Semester</th>
<th>Grade</th>
</tr>
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<td>University Requirements (10 credits)</td>
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<td></td>
<td>Multicultural</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>Breadth Group Requirements (31 credits)</td>
<td>Creative Arts and Humanities</td>
<td>9</td>
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<tr>
<td></td>
<td>History and Cultural Change</td>
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<td></td>
<td>Social and Behavioral Sciences</td>
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<td></td>
<td>Mathematics, Natural Science, and Technology</td>
<td>10</td>
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<tr>
<td>Major Requirements (18 credits)</td>
<td>2nd Writing</td>
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<td>ENEP 250</td>
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<td>PHYS 143</td>
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<td>ECON 101</td>
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<td>UAPP 225</td>
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<td>GEOG 236</td>
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<td>Capstone Courses (12 credits)</td>
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<td>ENEP 427</td>
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<td>CHEG 625</td>
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<td>GEOG 422</td>
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<tr>
<td>Senior Thesis Electives</td>
<td>ENEP 472</td>
<td>6</td>
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</tr>
</tbody>
</table>

1 Some Multicultural courses can also count as fulfillment of certain Group A, B or C Breadth Requirements.
# Course Requirements Worksheet

**Energy, Economics and Public Policy (EEP)**

125 credits required to graduate

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course</th>
<th>Credits</th>
<th>Semester</th>
<th>Grade</th>
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</thead>
<tbody>
<tr>
<td>University Requirements (10 credits)</td>
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<td>Multicultural¹</td>
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<tr>
<td>Breadth Group Requirements (31 credits)</td>
<td>Creative Arts and Humanities</td>
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<td>History and Cultural Change</td>
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<td>Social and Behavioral Sciences</td>
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<td>Mathematics, Natural Science, and Technology</td>
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<td>Major Requirements (18 credits)</td>
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<td>Advanced Course Requirement (ACR) (18 credits)</td>
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<td>ENEP 410</td>
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<td>Advanced Course Elective (ACE) (30 credits)</td>
<td>ENEP 472</td>
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<tr>
<td>Capstone Courses (12 credits)</td>
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<td>ENEP 427</td>
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<td>CHEG 625</td>
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<td>GEOG 422</td>
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<td>Senior Thesis</td>
<td>ENEP 472</td>
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<tr>
<td>Electives</td>
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</tbody>
</table>

¹ Some Multicultural courses can also count as fulfillment of certain Group A, B or C Breadth Requirements.
BREADTH REQUIREMENTS


Creative Arts and Humanities


History and Cultural Change


Social and Behavioral Sciences


Mathematics, Natural Sciences, and Technology

STUDENT LIFE

ENEP Undergraduate Council

The mission of the ENEP Undergraduate Council is to bring all ENEP undergraduates together in an out-of-the-classroom social setting. The group is meant to serve as a point of contact for all new and returning ENEP students. Topics such as course selection, course registration, and ENEP graduation requirements are discussed. Internship opportunities are also shared, as is the latest in energy and environmentally-related news. The ENEP Undergraduate Council is a young and developing group on campus open to new ideas from new members!

Points of contact:

Ahmad Abdullah  ahmad@udel.edu
Natalie Criscenzo  nataliec@udel.edu
Gnanadesikan Somasundaram  desik@udel.edu
Abigail Vanover  amvan@udel.edu
Madeline Williams  madewill@udel.edu

Meeting with Your Advisor

Your advisor is your assigned faculty member that will help guide you through your time here at CEEP. The frequency with which you meet your advisor depends on many issues. How busy is your advisor, what do you want to discuss, are there any important things coming up (e.g. paper deadline, conference, etc.), but we do suggest to meet with your advisor on a regular basis. Of course, the frequency also differs as to your personal preference, but most students meet with their advisor at least once a month. This will keep your advisor updated on your general progress, and will give you the opportunity to inform your advisor about any new potential plans you might have. Your advisor can help you with a range of different issues such as selecting a specific course that fits your plan of study, advising you of internship possibilities that you are qualified for, and helping you with general advisement.

Registering for Classes

You can register for courses through the University of Delaware website (http://www.udel.edu/). At the menu bar, select Students, and then UDSIS. After you log-in onto the UDSIS, you will get to your personal Student Center. Here, you can get information on a wide range of topics, such as your grades, transcripts, your financial standing with UD, courses taken, and your demographic data. But, importantly for this section, you can also register for the courses you’re planning on taking next semester. When you select Registration & Drop/Add, you get to a new window that allows you to select the courses you want to take. The website shows you how many seats are still available in the course and the schedule of the course.
Not sure about which courses you can choose from? A selection of courses is included in this handbook to provide you with an idea of the courses that fit well with the CEEP requirements. If you want to see which courses are offered outside of the courses mentioned here, you can take a look at the UD course catalog. You can find the catalog on the UD home website (http://www.udel.edu/). Just select Students from the main menu bar, then Academic Resources, followed by UD catalog.

Throughout your study, we recommend that you discuss your selection of courses with your advisor. You are also encouraged to discuss your course selection with fellow students. Also, make sure to select your courses prior to the start of the semester (except for your very first semester as you need to wait for orientation) and on time.

**Campus Services**

The University of Delaware provides students with assistance in classes, personal development and finding a job after graduation.

**Office of Academic Enrichment**

The Office of Academic Enrichment provides students with the skills needed to succeed in classes, including tutoring and study skills, much of which is free of charge.

Office of Academic Enrichment  
148-150 S. College Ave  
(302) 831-4555  
UD-aec@udel.edu  
http://ae.udel.edu/

**University Writing Center**

The University Writing Center helps students to improve their writing skills through one-on-one and small group tutorials. Writing tutors will review written assignments to strengthen organization, documentation and grammar.

016 Memorial Hall  
(302) 831-1168  
writing-center@udel.edu  
http://www.english.udel.edu/wc/

**Career Services Center**

Career Services Center provides career advice and help finding employment for UD students and alumni.

401 Academy Street  
(302) 831-2392  
udcareers@udel.edu  
http://www.udel.edu/CSC/
Office for International Students and Scholars (OISS)

For international students, the OISS is a very important service. The OISS has a separate orientation in which they will inform you of all the services they provide. Here, we provide you with their contact information for your convenience:

Office for International Students and Scholars  
44 Kent Way  
(302) 831-2115  
oiss@udel.edu  
http://www.udel.edu/oiss/

Around UD and Newark

Where to Go on Campus

Here is the UD map:  http://primus.nss.udel.edu/buildings/main.action

Student Centers

Perkins Student Center (on Academy Street) contains a food court (nice mix of fresh and made-to-order food), Dunkin Donuts, study space, and a copy center. Downstairs is the Hen Zone (arcade) and Baccus Theater, a location for any number of student plays, concerts, and other activities. There is an Amazon Locker on the first floor where you can receive secure shipments from the online retailer.

Trabant Student Center (on the corner of South College and Main Street) contains another (though much busier and louder than Perkins) food court, a PNC bank, multi-purpose rooms (job fairs, lectures, campus events, etc.), a copy center, and a travel agency. Downstairs is a movie theater.

UD Fitness Centers’ Various locations (http://www.udel.edu/fitness/)

All full-time students have free gym membership, which includes an Olympic sized pool, cardiovascular exercise equipment, weights, aerobics classes, basketball courts and racquetball courts. Volleyball and Badminton nets are available at no charge upon request. Just bring your student ID (it acts as your membership card).

UD Parking

The campus has undergone extensive change during the last several years, thus you should make sure you know the parking rules if you choose to drive to campus. UD Parking home can be found at: http://www.udel.edu/transportation/  An interactive Parking Map can be found at:  http://www.udel.edu/transportation/parking/parking-intmap.html  Information on the UD Shuttle (by seeing its location online real-time: http://www.udel.edu/udshuttle/)
**Health Care on Campus**

In the event of an emergency, call 911. If you wish to drive to the closest hospital, then visit Christiana (www.christianacare.org/) or Union Hospital in Elkton Maryland (www.uhcc.com/).

For general primary doctor care, visit the Student Health Services (SHS), which is located in Laurel Hall (on the main campus south green area at the intersection of South College Avenue and East Park Place). Information on their services is located here: [http://www.udel.edu/studenthealth/index.html](http://www.udel.edu/studenthealth/index.html)

For student insurance, the plans that are made available are introduced here: [http://www.udel.edu/studenthealth/insurance/index.html](http://www.udel.edu/studenthealth/insurance/index.html)

**UD Electronic Communications & Administration**

As a student at UD you will need to access forms and view information over the internet, so the links below represent the most important places to find the information you are seeking.

- CEEP's homepage: [http://ceep.udel.edu/](http://ceep.udel.edu/)
- UDSIS, where to add/drop classes, look at your finances, etc.: [http://www.udel.edu/udsis-student](http://www.udel.edu/udsis-student)
- Webviews, where you can look at your paystubs, etc.: [http://www.udel.edu/webviews](http://www.udel.edu/webviews)
- People search: [http://www.udel.edu/peoplesearch/](http://www.udel.edu/peoplesearch/)
- UD Maps: [http://www.udel.edu/maps/](http://www.udel.edu/maps/)
- Sakai: [http://www.udel.edu/sakai](http://www.udel.edu/sakai)

**UD Library**

Recently renovated in the summer of 2014, the Morris Library is an unparalleled resource for research and study – both in the stack and on the web: [www.lib.udel.edu](http://www.lib.udel.edu). You can also reserve private research/study meeting rooms for project meetings.

Online, you will find access to many databases (JSTOR, RefWorks, Academic OneSource, Lexis Nexis, etc.) and hundreds of journals, to which you have subscription access as a UD student.

Aside from books, the basement of the Morris Library offers access to a wide range of resources and services. The Student Multimedia Design Center is stocked with many computers, both PC and Mac, as well as free rental of high-tech audio, video and photographic equipment. They even offer professional quality video and audio recording studios. In addition to basic self-service scanning, printing and copying services, they also offer large-format poster printing.
The adjacent Film and Video Collection houses over 14,000 DVD/Blu-ray discs of movies, TV shows, etc. If you can’t find what you’re looking for, the Inter-Library Loan department located on the first floor can get almost any book or film from an affiliated library.

**Where to buy your books**

UD bookstore at Barnes & Noble

**Barnes & Noble UD Bookstore**
83 East Main Street
Newark, DE 19717
Website: [http://udel.bncollege.com/](http://udel.bncollege.com/)

**Other Book Shops**

Lieberman's Bookstore – ([www.lubonline.com](http://www.lubonline.com))

Used Books Only:
Bookateria
70 E Cleveland Ave.
(302) 737-4933

Manor Used Books
1005 N. Dupont Hwy., New Castle, DE
(302) 322-5584

You can find books, as well as jobs, housing, and other items on UDel Classifieds: [www.udel.edu/classifieds](http://www.udel.edu/classifieds)

**How to reserve a room at UD**

One option is to submit a room request form with the Registrar’s Office: [http://www.udel.edu/registrar/forms/specev.html](http://www.udel.edu/registrar/forms/specev.html). (This option is available to Staff only.)

There is a second option, but it requires collaborating with a Graduate Student Organization (GSO) such as EEPSA or a Registered Student Organization (RSO) such as Students For the Environment (S4E), which have room reservation privileges in the Perkins and Trabant Student Centers. [NOTE: The designation of an RSO is restricted to undergraduate student associations.]

**Where to go in Newark**

**On Main Street:**
- Panera Bread ([www.panerabread.com](http://www.panerabread.com))
- Cosi ([www.getcosi.com](http://www.getcosi.com))
- Iron Hill Brewery ([www.ironhillbrewery.com](http://www.ironhillbrewery.com))
- Klondike Kates ([www.klondikekates.com](http://www.klondikekates.com))
- Homegrown Cafe (www.homegrowncafe.com) - great for local, vegetarian and vegan!
- Ali Baba Mid Eastern Cuisine (www.alibabacuisine.com) - also good for vegetarian cuisine
- Deer Park Tavern (www.deerparktavern.com)
- Caffé Gelato – (www.caffegelato.net)
- Indian Sizzler (www.indiansizzlerus.com)

**Off Main Street:**
- Border Cafe - 483 Stanton Christiana Rd (www.bordercafe.com) (cajun/creole)
- Mad-macs/Matilda’s – 801 S College Ave., (302) 737-4800
- Claymont Steak Shop – 57 Elkton Rd. (http://www.claymontsteakshop.com/)
- Greene Turtle - 250 S. Main Street, Suite 101 (http://www.thegreeneturtle.com/)
- Jake’s - 250 S. Main Street, Suite 110 (http://waybackburgers.com/)
- Buffalo Wild Wings – 100 S. Main Street (http://www.buffalowildwings.com/)

**Groceries:** (you can use Google maps or mapquest to find these addresses)
- Newark Co-Op – 280 E Main St, www.newarknaturalfoods.com
- Newark Farmer’s Market, 2515 Kirkwood Hwy, Newark, De 19711
  http://naturalhouse.wix.com/shopnewarkfarmersmarket
  (4 mi. NE of CEEP), this is where you will find the largest selection of food items that you cannot find in the other grocery stores, such as international foods. Acme (2.2 mi SW of CEEP) Suburban Plaza Shopping Center, off Rte 2
- Pathmark (1 mi. NE of CEEP) in College Square Shopping Center on Library Road (100 College Sq)
- Shop Rite (1.5 mi. SE of CEEP), 19 Chestnut Hill Plaza
- Super Fresh (1.4 mi. NW of CEEP), 401 New London Rd
- Safeway (approx. 6 miles S of CEEP) in Peoples Plaza, off Rte 896
- Apna Bazaar (approx. 1 mi. SW of CEEP) 267 S. Main Street in the Park n' Shop

**Coffee Shops:** On Main Street:
- Brewed Awakenings - 64 E Main St (best spot for fair trade coffee)
- Brew Ha Ha - 45 E Main St (second floor of Main Street Galleria above Lieberman's/Grotto's)
- Starbucks - 141 E Main St (Corner of Main St and Haines St)
- Central Perk - 42 E Main St
- Dunkin Donuts – 51 E Main St. (same building as Brew Ha Ha, first floor)
- Saxby’s Coffee – 57 Elkton Rd. (A little off Main St., in Amstel Court)

**Movies:**
• Newark Cinema Center 3, Newark Shopping Center – 401 Newark Shopping Center (inexpensive, walking distance, but only three screens) http://cinemacenter3.com/
• UD Theater (In Trabant Student Center, lower level – near Main St). Weekend showings of mainstream films (http://www.scpab.com/);
• Also: rent movies for free at Newark Free Library corner of E. Main St. and Library Ave, as well as from University’s Library (http://www.lib.udel.edu/)

Parks:

• White Clay Creek State Park (closest to campus) - 425 Wedgewood Rd (www.destateparks.com/park/white-clay-creek/). Other State Parks, see www.destateparks.com/
• Fair Hill Natural Resource Management Area (http://dnr2.maryland.gov/publiclands/central/fairhill.asp) - good hiking and mountain biking trails, about 5 minutes from campus
• Longwood Gardens (www.longwoodgardens.com) - for beautiful planned and wild gardens, forests, fountains, conservatories, and DuPont opulence

Where to go outside of Newark

• Wilmington- 13 miles (http://www.ci.wilmington.de.us/)
• Philadelphia- 45 miles (http://www.visitphilly.com/)
• Baltimore- 60 miles (www.baltimore.org)
• Rehoboth Beach, DE- 90 miles (www.beach-fun.com www.rehoboth.com)
• Washington DC- 95 miles (www.washington.org)
• New York- 130 miles (www.nycvisit.com)

How to get around
Newark has a very walkable and bike able downtown. For greater distances, you may want to use a car or take public transportation.

Newark
UD Shuttle Bus Service, around campus for free - (www.udel.edu/bus), see also the real-time tracker: http://www.udel.edu/udshuttle/
Newark UNICITY bus system – (www.udel.edu/transportation/unicity-route/) (Newark service)

Delaware Authority for Regional Transit (DART) - (www.dartfirststate.com)


With Zipcar on campus, it just got easier to live without a car. (http://www.udel.edu/transportation/zipcar.html)
**Delaware**
DART buses – offer statewide service

Southeastern Pennsylvania Transportation Authority (SEPTA) trains
The R2 line runs through Newark to Wilmington and Philadelphia.

**Philadelphia and beyond**- SEPTA, Amtrak, private bus companies
www.septa.org
www.amtrak.com
www.megabus.com
www.boltbus.com

**Megabus**: Baltimore, New York, Philly, DC, Richmond (VA), Hampton (VA)

**MARC** Train Perryville, MD to Baltimore and Washington DC
http://www.perryvillemd.org/train_station.html