Doctor of Philosophy
Energy and Environmental Policy


Center for Energy and Environmental Policy
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**WELCOME TO THE PH.D.-ENEPI DEGREE PROGRAM**

The document before you was prepared by CEEP faculty in coordination with the Energy and Environmental Policy Student Association (EEPSA). It is intended as a supporting tool throughout your academic pursuit of a Ph.D. at the Center. The handbook contains information that will be relevant in all phases of your study and serves as a ‘start-to-finish’ guidebook. The degree of Doctor of Philosophy signifies that the holder has undertaken a substantial piece of original research, rigorous in content, thoughtful in analysis, and demonstrating a distinct contribution to knowledge. To allow you to focus on meeting the requirements of the University of Delaware and CEEP, this document helps in providing you an adequate overview of issues you might encounter throughout your study.

**Administered by the Center for Energy and Environmental Policy**

The Ph.D.-ENEPI degree builds upon the leadership and excellence of CEEP in energy and environmental policy research. 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 and environmental justice in the fields of energy and environmental policy by engaging a diverse range of academic and professional discourses.

The Ph.D.-ENEPI degree is aptly positioned within this context of rigorous academic study, 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.
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**Choose Your Career Path**

Candidates who successfully complete the Ph.D.-ENEP degree are prepared for rewarding academic or professional careers in sustainable energy and water development, environmental protection, E4 development\(^1\), climate change policy and green economics. 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 universities, governments, international agencies, research and policy institutions, consulting firms, energy utilities, and corporate departments with responsibilities in energy and environmental matters.

**Degree Specializations**

The Ph.D.-ENEP has three components: a) a 21 credit core curriculum; b) the development of a research area and the dissertation proposal involving at least 24 credit hours; and c) the writing of the dissertation itself. The Ph.D.-ENEP degrees are directly administered by CEEP with the support of five colleges at the University of Delaware: Agriculture and Natural Resources; Arts and Science; Business and Economics; Earth, Ocean and Environment; and Engineering. The support of these colleges reflects the interdisciplinary character of the Ph.D. ENEP degree.

Within the interdisciplinary structure of the Ph.D.-ENEP degree, CEEP offers several specializations that allow the candidate to develop the skill set of their choice. The degree specializations enable candidates to choose an approach to energy and environmental policy that suits their own career desires.

**Energy Sustainability**: Existing reliance on fossil and nuclear fuels is giving way to an emerging sustainable energy economy and society. The costs of conventional energy sources are becoming unacceptably high, leading to a shift toward energy conservation, improved energy efficiency, and renewable energy. Issues addressed by CEEP include: energy for sustainable development, energy and developing countries, environmental and social assessments of energy policies, the role of energy in climate change, the political economy of nuclear power, community-scale energy planning, and the requirements for energy justice.

**Water Sustainability**: CEEP embraces a “soft path” to issues of water resources and ecosystems. It seeks to move beyond reliance upon conventional supply-side approaches by focusing on conservation and the sharing of best management practices of water resources. The candidate with a water sustainability specialization incorporates concerns of social equity, conflict management, stream flow impacts and ecosystem sustainability in his/her research.

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\(^1\) E4 is a term developed at CEEP to capture new development paradigms based on the principles of equality, ecology, energy/water sustainability, and commons-sensitive economies.
**Environmental Justice:** This specialization expands the challenge of environmental issues to include patterns of environmental injustice and recognizes the contemporary tendency to ignore issues of race, class, and gender in setting agendas for social action. Candidates with a specialization in environmental justice gain a comprehensive perspective of the issues and viewpoints of environmental injustice and the growing movement to produce ideas and practices for an ecologically just society.

**Political Ecology:** Often identified with political economy, political ecology frequently takes political economy’s interest in the expression and influence of state and corporate power on environmental politics and combines this with insights derived from understanding and analyzing environmental influences on social activity. In this manner, political ecology extends theoretical inquiry beyond the insights of the conventional social and natural sciences. Political ecology’s ability to engage the philosophy and values of ecological justice has made it attractive to many who expect analysis to facilitate social change.

**Global Environments:** Global environmental issues can include issues of social conflict (such as unequal distribution of risks and costs), questions of ecological integrity (e.g. the loss of biodiversity or disruption of commons systems), and problems that require international response because they have global causes or significance (e.g. climate change). Climate change has been the most popular of the global environments issues for graduate study at CEEP, but other areas of interest include international trade and environment, globalization, and biodiversity protection. Global environmental issues have also been examined in the context of sustainable development and the implications for ecological justice.

**Sustainable Development:** A graduate study with the specialization of sustainable development covers contending perspectives on national and global sustainability, explores the relationship between human society and the natural environment, and investigates the values that encourage standards that are within the bounds of the ecologically possible and the socially reasonable. The sustainable development specialization further carries a strong intra- and inter-generational focus.

Design your own: Candidates may design a Specialization with the approval of their faculty advisor.
Ph.D.-ENEP Degree Requirements

There are several requirements that you will need to meet throughout your pursuit of the Ph.D. degree. Your advisor will be critical in this process as a source of information, support, and advice as you register for classes and seek to meet your requirements.

Meeting with your Advisor

Your advisor is your assigned faculty member that will help guide you through your time here at CEEP. Your faculty advisor must be a member of the core faculty. The frequency with which you meet your advisor depends on many issues. We ask you 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, and advise you of internship possibilities for you are qualified, and can help you with general advisement.

Registering for Classes

New students should wait to register for courses until the day of orientation. At orientation, the CEEP faculty will introduce themselves and there is an opportunity to meet with your advisor and discuss your plan of study. Your advisor will go through the first semester with you to ensure that your course package is suitable for your plans and fits with CEEP course requirements. Continuing students should meet with their faculty advisor before registering for courses.

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 should go 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.

Registration for independent study courses (ENEP666, ENEP866, ENEP868 and ENEP870) requires the assistance of the CEEP Office Staff. A form (see Appendices) must be completed with the instructor’s signature before registration.

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. The CEEP study committee has taken most of the courses offered to CEEP students and can, therefore, provide you with some first-hand advice. 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.

**Course Requirements**

In terms of course requirements, the Ph.D.-ENEP degree consists of several obligatory courses and a selection of courses that fall within a methods requirement section, a social science requirement section, and a science, engineering, and public policy requirement section. In addition, there is a specialization requirement.

**Required courses:**

- ENEP 821 – Technology, Environment, and Society (TES) (Fall)
- ENEP 820 – International Perspectives on Energy and Environmental Policy (Spring)

**Methods Requirements:**

Six credits of methodology course work is selected from the following list of 3-credit courses. (Substitutions are available by permission of the student’s Ph.D. advisor and the ENEP Graduate Program Director).

Note: not all courses are offered annually.

- ENEP 660 Engineering Economic Analysis for Sustainable Energy (Fall)
- APEC 807 Math Programming with ECON App (Fall)
- ECON 801 Microeconomics (Fall)
- ECON 802 Macroeconomics (Fall)
- ENWC 615 Wildlife Research Techniques (Spring)
- GEOG 604 GIS for Environmental Research (Spring)
- GEOG 670 Geographic Information Systems and Science (Fall)
- GEOG 671 Advanced Geographic Information Systems (Fall) Not offered in Fall 2015
- MAST 663 Decision Tools for Policy Analysis (Fall)
- MAST 672 Cost-Benefit Analysis (Fall)
- MAST 681 Remote Sensing of the Environment (Fall) - Not offered in 2015 Fall
- POSC 816 Philosophy of Science and Research Design (Fall)
- STAT 608 Statistical Research Methods (Fall & Spring)
- UAPP 691 Quantitative Analysis in the Public and Non-profit Sectors (Fall)
- UAPP 801 Processes of Social Inquiry (Spring)
- UAPP 808 Qualitative Research Methods for Program Evaluation (Spring)
For individuals with strong backgrounds in economics, the following 3-credit methods courses may be added to the above list for selection:

ECON 803 Applied Econometrics I (Fall)
ECON 804 Applied Econometrics II (Spring)
ECON 810 Mathematics for Economics (Fall)
ECON 822 Econometric Theory I (Fall)
ECON 823 Econometric Theory II (Spring)

**Social Science Requirements:**

Six credits of courses are selected to meet the social science requirement.

List of social science courses satisfying the Social Science Requirement:
Note: not all courses are offered annually.

ENEP 625 Energy Policy and Administration (Fall)
ENEP 626 Climate Change: Science, Policy and Political Economy (Spring)
ENEP 661 Sustainable Energy Finance (Spring)
ENEP 802 Electricity Policy and Planning (Fall)
ENEP 810 Political Economy of the Environment (Fall)
ENEP 824 Sustainable Energy Policy and Planning (Spring)
ENEP 666 Special Problem: Topics in Energy Policy (Fall & Spring)
ENEP 666 Special Problem: Topics in Political Economy of Energy & Environment (Fall & Spring)
ENEP 666 Special Problem: Topics in Sustainable Development (Fall & Spring)
ENEP 666 Special Problem: Comparative Environmental Politics (Fall & Spring)
ENEP 868 Research: Environmental Justice Issues (Fall & Spring)
ENEP 868 Research: Political Economy of Energy & Environment (Fall & Spring)
ENEP 868 Research: Sustainable Development Issues (Fall & Spring)
ENEP 868 Research: Sustainable Energy Policy (Fall & Spring)
ENEP 868 Research: Sustainable Water Policy (Fall & Spring)
ENEP 870 Readings: Climate Change Politics and Policy (Fall & Spring)
ENEP 870 Readings: Energy Economics (Fall & Spring)
ENEP 870 Readings: Energy Policy (Fall & Spring)
ENEP 870 Readings: Environmental Ethics (Fall & Spring)
ENEP 870 Readings: Environmental Justice (Fall & Spring)
ENEP 870 Readings: Political Economy of Energy & Environment (Fall & Spring)
ENEP 870 Readings: Postmodernism and Environmentalism (Fall & Spring)
ENEP 870 Readings: Sustainable Development (Fall & Spring)
ENEP 870 Readings: Sustainable Energy Options (Fall & Spring)
ENEP 870 Readings: Sustainable Water Options (Fall & Spring)
DISA 666 Special Problem: Disaster Science and Management (Fall & Spring)
DISA 866 Special Problem: Disaster Science and Management (Fall & Spring)
ECON 862 Topics in Industrial Organization and Regulation (Fall) Not offered in Fall 2015
ENWC 613 Wildlife Policy and Administration (Fall)
GEOG 622 Resources, Development and the Environment (Spring)
MAST 660 International Ocean & Environmental Policy (Fall)
MAST 675 Economics of Natural Resources (Fall)
MAST 676 Environmental Economics (Spring)
SOCl 671 Disasters, Vulnerability and Development (Fall)
UAPP 611 Regional Watershed Management (Spring)

Science, Engineering, and Public Policy Requirement:

Students complete the science, engineering and public policy requirement by choosing a three-credit graduate course (including a tutorial course with a number such as ENEP666, ENEP866, ENEP868 or ENEP870) in a natural science or engineering related topic to meet the science, engineering and public policy requirement. The course must be taken with a member of the University's science or engineering faculty and should be linked to the student's research interest.

Courses satisfying the Science, Engineering and Public Policy Requirement include (but are not limited to):

Note: Not all courses are offered annually. Also, please see your faculty advisor for more options.

BISC 635/ENWC 635 Population Ecology (Spring) Not offered in Spring 2016
CIEG 632 Chemical Aspects: Environmental Engineering (Fall)
CIEG 636 Biological Aspects: Environmental Engineering (Fall)
CIEG 650 Urban Transportation Systems (Fall)
CIEG 654 Urban Transportation Planning (Spring)
CIEG 655 Civil Infrastructure Systems (Fall) Not offered in Fall 2015
CIEG 666 Special Problem: Science & Engineering Aspects of Agricultural Systems (Fall & Spring)
CIEG 666 Special Problem: Science & Engineering Aspects of Water Systems (Fall & Spring)
ELEG 620 Photovoltaic Materials and Devices (Fall)
ELEG 628 Solar Energy Technology and Application (Spring)
ELEG 637 Energy Systems (Fall)
ENWC 620 Behavioral Ecology (Spring)
GEOG 652 Seminar in Climatology (Fall) Not offered in Fall 2015
MAST 601 Introduction to Oceanography (Fall) Not offered in Fall 2015
MAST 606 Ocean & Atmosphere Remote Sensing (Spring)
MEEG 642 Introduction to Fuel Cells (Fall & Spring)

Specialization Requirement:

Fifteen credit hours including the 3 credit Doctoral Dissertation Proposal (ENEP 863). Contact the Director of CEEP or the ENEP Graduate Program Director for more information.
Courses not taken from the list under the social science requirement above can be used to build a specialization. Coursework other than offerings listed in the social science requirement can be included with the approval of the student’s advisor.

**ENEP Course Descriptions**

The Graduate Catalog ([http://academiccatalog.udel.edu/](http://academiccatalog.udel.edu/)) provides an overview of the courses offered at UD. More specifically, the UD Course Catalog ([http://primus.nss.udel.edu/CourseDesc/index.action](http://primus.nss.udel.edu/CourseDesc/index.action)) allows a detailed search and description of all the courses offered at UD. Below, we describe some of the core ENEP courses. Graduate courses have numbers that are 600 or higher.

For courses with an asterisk (*), students are required to complete a Tutorial Course Registration form and submit it to CEEP Office Staff. Only Office Staff can register a student for this course.

**ENEP 625: Energy Policy & Administration**

This course analyzes energy use and energy policy with respect to politics, society, economics, finance, 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 626 Climate Change: Science, Policy and Political Economy**

In the last decade, science has gained increasing confidence that anthropogenic release of CO₂, largely from fossil fuel combustion, is driving a change in atmospheric concentrations of greenhouse gases, with implications for earth’s climate and ecosystems. The scale of implied change, while uncertain, stands to affect human populations (and other species) in potentially very negative ways, from altered patterns of rainfall and drought to the emergence of new pathogens, rising sea levels, and the migration of species to new territories. Indigenous livelihoods, crop production, urban infrastructure, present patterns of trade and migration, and quite possibly human survival – all may be threatened under more severe scenarios of climate change.

This course attempts to explain the science of climate change and to characterize existing policy responses, to date. Specific attention is given to exploring the political-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, which are critical of current pathways and seek opportunities for energy reform that can advance both meaningful CO2 reductions and opportunities for wider socially beneficial outcomes.
**ENEP 660 Engineering Economic Analysis for Sustainable Energy**

The course covers economic evaluation approaches, metrics, and level of detail required for making sound economic decisions in sustainable energy project development. Students will learn about discounting (i.e. time value of money), financing methods (loans, mortgages, bonds, etc.), economic metrics (NPV, IRR, BCR, LCOE, etc.), and policy impacts (tax credits, capital rebates, accelerated depreciation, RECs, etc.) on wider adoption of sustainable energy systems.

**ENEP 661 Sustainable Energy Finance**

This course covers the financing structures and strategies utilized in developing sustainable energy projects, including solar, wind, hydroelectric, biomass and energy efficiency. This course is built on real-world examples from projects implemented around the world to provide a practical understanding of the financial analysis, policies and business perspectives required to implement sustainable energy projects. This course explores traditional project finance (debt and equity) and emerging structures (Investment Trusts, Energy Service Agreements, Crowd-Funding, and others) as tools to evaluate the financial value and project risk profile from the perspective of all the relevant parties of a successful transaction. This course is designed to be interactive utilizing a combination of lectures, guest practitioner discussions, in-class exercises and a group project to engage students in a participatory learning process to explore issues regarding sustainable energy finance.

**ENEP 666 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 802: Electricity Policy and Planning**

This course analyzes the technological and regulatory policy evolution of the electricity industry. Emphasis is placed on the American experience with a comparative analysis of other national experiences. It also considers how technology innovations and policy/regulatory actions have guided the planning of the industry from its early days, and current technology and policy issues facing the industry and regulators.

**ENEP 810: Political Economy of the Environment**

Relations between societies and nature are, and have always been, complex. But contemporary relations and their manifestations are signals for many that fundamental problems exist. For example, socio-physical phenomena such as acid rain, urban air pollution, deforestation, thinning of the upper atmospheric ozone layer, rising rates of species extinction, mounting threats to biodiversity, and the prospect of global warming suggest that human activities are disrupting ecosystems. Political-economic phenomena such as ecological imperialism, environmental commodification, unsustainable development, widening environmental injustice, and increasing threats to
the livelihood basis of indigenous peoples suggest that the human toll of modern life is equally serious.

This course provides an interdisciplinary review and analysis of several theories and policy orientations developed over the last half century to explain and shape nature-society relations. A Policy Critique examining the issue of Global Climate Change is offered in the seminar as an example of how to evaluate the current range of political-economic explanations of nature-society relations.

**ENEP 820: International Perspectives on Energy & Environmental Policy**

The core focus of this course is government activity in the environmental and energy realms and the factors influencing policy formulation, application and effectiveness. We are free to analyze what government(s) has/have done, or not done, within the realm of the natural environment.

Among the objectives of the course are to:

- Present a political, economic and policy analysis of energy & environmental policy issues with emphasis on the international realm;
- Introduce a global energy scenario and explores its limitation;
- Review energy vulnerabilities faced by the South and examine issues associated with technology transfer from North to South;
- Examine global energy security and cooperation and explore global solar economy as an alternative to fossil fuel economy
- Examine the rise, development and prospects for global and international environmental governance;
- Review energy and environmental treaties, framework conventions, protocols, and other forms of agreements arising from international negotiations;
- Examine specific global environmental issues, such as biodiversity protection, environmental security, global warming, globalization, stratospheric ozone depletion, urban development, and freshwater resources; an
- Consider and evaluate a range of concepts in global environmental politics, including the global commons, international economy, sustainable development, the role of scientific knowledge, scale of governance, and social movements.

**ENEP 821: Technology, Environment, & Society (TES)**

The “Technology, Environment and Society” seminar is a core course for the Ph.D. program in Energy and Environmental Policy and a proseminar for the core program of the Ph.D. in Urban Affairs and Public Policy. This seminar introduces students to important theoretical perspectives that populate the energy, environmental, urban and public policy spaces. It maps the interaction between technology, the environment and society, as well as a range of critiques, to furnish the vocabulary for Ph.D. students to creatively imagine alternatives to our many urgent energy, environmental, urban and public policy challenges.
The seminar commences with a discussion of two distinctive ideas, viz. progress and technology that have significantly shaped the modern world. In Part II, the seminar examines prominent theories of political economy that furnish explanations for the industrial, as well as what some have offered is a post-industrial, transformation. The seminar then proceeds to consider the modern transformation of Asia, Africa and Latin America and its reception among numerous and diverse peoples and societies of these regions. In Part III, the seminar introduces students to critiques of the modern transformation including "post-modernism" and those that spring from the experience of Asia, Africa and Latin America. In Part IV, the seminar discusses the environmental critiques offered with regard to the modern transformation. In this context not only are the environmental implications of development examined, but also several critiques of modern efforts to redress its environmental consequences are considered.

In its conclusion, the seminar focuses on new frontiers that are being encroached by the modern transformation and the conflicts that they engender.

**ENEP 824: Sustainable Energy Policy and Planning**

Sustainable energy paths are characterized by high levels of energy efficiency, extensive use of distributed energy resources and energy storage, reliance on natural gas as a transitional fuel, increasing dependence on hydrogen as an energy carrier, and a gradual shift to renewable energy sources. This course enables students to analyze sustainable energy strategies in terms of their economics, impacts on the environment (especially on climate change) and governance attributes. The course will also analyze policy options to facilitate a sustainable energy future.

**ENEP 866 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 868 Research**

The research course is an in-depth independent study between a Ph.D. 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 870 Readings**

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.

* Students are required to complete a Tutorial Course Registration form and submit it to
  CEEP Office Staff. Only Office Staff can register a student for this course.

**Plan of Study**

This student guide details the core requirements and schedule of events of the Ph.D.
program in Energy and Environmental Policy at the University of Delaware; it gives
students a brief explanation of the order and process, with optional methods to reach
sustaining status for the third year of study. This document does not include details on
other required courses and electives; those choices are more flexible, and discussions
about what other courses to take should include your academic advisor. Disclaimer: As
a general guide, this schedule and information is “ideal”; however, variation to this
process can occur. The student should consult fellow students and academic advisors
for a more thorough understanding of specific situations.

**Year One: 1st semester (9 credits)**

- ENEP 821 Technology, Environment, and Society (TES) (3 credits)
  This is a core requirement course; it is the basis for 50% of Qualifying
  Examinations. It is recommended that through this course the students focus on
developing an ability for constructive discursive arguments on issues related to
the technology, environment and society nexus.
- Six credits in selected courses.

**Year One: 2nd semester (9 credits and a one-credit class to audit)**

- ENEP 820: International Perspectives on Energy and Environment (3 credits)
This is a core requirement course; it is the basis for 50% of Qualifying Examinations. For the qualifying exams on the first part of this course, it is recommended that the student focuses on understanding the significance of Kaya Identity as a policy tool.

- Six credits of selected courses.
  Recommended: UAPP 801: Processes of Social Inquiry (3 credits)
  This class is not required, but it structures proposal writing and critical research in alignment with the process required for ENEP 863: Dissertation Proposal. This course is not for everyone and their research process. However, it does provide a structured approach for writing an initial proposal and creating a research design.
- One credit class to audit: CEEP Colloquium Series

Summer (after 2\textsuperscript{nd} semester and before 3\textsuperscript{rd} semester):

**Qualifying Examinations:**
Approximately two weeks after the end of the second semester, all PhD students are required to take qualifying examinations to be accepted to the next stage of their PhD course. The qualifying exam consists of

- 2 questions based on issues discussed in ENEP 821 (a choice of 2 out of 3 is given) – essay time response
- 1 question based on the concerns raised in the Energy Policy section of ENEP 820 (no choice) – white paper
- 1 question based on the perspectives discussed in the Environmental Policy of ENEP 820 (no choice) – academic paper style response

The class as a group decides on the exact date of receiving the question paper, but it can be no longer than two weeks from the end of the spring semester. On the pre-decided date, students are expected to come in person to CEEP and collect hard copies of their question paper from the reception. They get 15 days to write their responses during which time it is expected that students do not discuss the questions with each other. EEPSA will hold a ‘Qualifying Exam Support Session’ sometime during the second semester to answer all questions and doubts students might have about the examination. Students are required to hand over ONE printed copy of their responses to the staff assistant at CEEP on or before the due date. Students are notified in August by letter with one of five different grades: pass with distinction, strong pass, pass, conditional pass, or fail.

**Year Two: Third semester (12 credits)**

- ENEP 863: Dissertation Proposal (3 credits)
  Use methods of research design to prepare a graded “draft” proposal. A grade for this course must be received at the end of the third semester.
- 9 credits in selected courses

**Year Two: Fourth semester (15 credits) and a one credit class to audit**

- ENEP 964: Pre-Candidacy Status (9 credits)
This course is graded pass/fail. You must have a grade for ENEP 863 to enroll in this course. The Office of Graduate Studies enrolls you in these credits.

- Specialization coursework (6 credits)

**Illustrative timeline Dissertation Proposal up to Dissertation Proposal Defense (ENEP 964)**

- End of 3rd semester: Graded Proposal for ENEP 863
- End of 4th semester: Section II of “Recommendation for Candidacy for Doctoral Degree” form (see below in appendix) submitted to CEEP Administration and Graduate Office
- 2 weeks before the start of the 5th semester: Student must have been admitted to Doctoral Candidacy and the initial three (3) person Dissertation Committee must have received a professional presentation of the proposal and agreed to continue guidance of the student’s doctoral research project.

<table>
<thead>
<tr>
<th>Milestone Chart</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beginning of Month 1 of the 4th semester</td>
</tr>
<tr>
<td>Student submits an improved proposal based on their ENEP 863 graded submission</td>
</tr>
<tr>
<td>End of Month 1 of the 4th semester</td>
</tr>
<tr>
<td>Student receives advice from the chair of the initial three (3) person Dissertation Committee regarding necessary improvements</td>
</tr>
<tr>
<td>Beginning of Month 2 of the 4th semester</td>
</tr>
<tr>
<td>Student improves the proposal and re-submits the document to the Committee Chair</td>
</tr>
<tr>
<td>Middle of Month 2 of the 4th semester</td>
</tr>
<tr>
<td>With approval of the Committee Chair student submits draft of improved proposal to 3 Committee members</td>
</tr>
<tr>
<td>Middle of Month 3 of the 4th semester</td>
</tr>
<tr>
<td>Committee Members are given 3-4 weeks to review the improved proposal and to forward comments to the Chair, who discusses them with the Students</td>
</tr>
<tr>
<td>End of Month 3 of the 4th semester</td>
</tr>
<tr>
<td>The student meets with the Chair to set a Committee Meeting for review of the new proposal</td>
</tr>
<tr>
<td>Beginning of Month 4 of the 4th semester</td>
</tr>
<tr>
<td>After public display in the CEEP lobby for at least 5 week days, the Committee meets to received a professional presentation of the student regarding the proposal research. The Committee identifies additional revisions, if any, and the student launches the research project under the day-to-day guidance of the Chair.</td>
</tr>
</tbody>
</table>
Committee Members can be consulted at any time during the preparation of the dissertation. However, coordination should always take place with the Chair of the Committee.

Year Three to Dissertation Defense

The Ph.D. candidate is expected to write a doctoral dissertation. This includes nine credits of registration in ENEP 969 for doctoral research supervision. ENEP 969 in the fourth semester needs to be successfully completed to advance into sustaining status. The Ph.D. in ENEP is awarded upon the successful defense of the dissertation before a committee of four faculty, two of whom – including the chair – must be selected from the core faculty of the ENEP program. At least one committee member must be selected from non-ENEP core faculty and may hold an appointment from another institution. It is expected that an external faculty member from another institution with expertise in the regional focus of the dissertation will be selected when the research concerns an international topic.

Sustaining Status

Note: sustaining status is not the same as “approved” candidacy! Sustaining status normally recognizes you as a student who has completed all coursework. CEEP funding will only cover your sustaining fee and stipend, not tuition charges for any courses taken after the second year of study! Classes can be audited, but this is just an official method of simply sitting in on a course.

2 months before Dissertation Defense: at least 2 months before the Defense of the Dissertation, a 4th Committee Member must be added with the approval of the Chair.

Committee Members can be consulted at any time during the preparation of the dissertation. However, coordination should always take place with the Chair of the Committee.

Dissertation Manual

A thesis and dissertation manual is prepared and edited by the Office of Graduate and Professional Education. The requirements published therein are effective for all students submitting theses, dissertations, and executive position papers. All graduate students and their advisors are responsible for understanding and following these standards. The manual can be found at:
http://www.udel.edu/gradoffice/polproc/manual.html

An Illustrative Timeframe for Defense of the Dissertation For May Graduation

- October 1: First complete draft of dissertation (all chapters except conclusion) submitted to Committee Chair.
- November 1: Student meets with Committee Chair only for discussion of needed revisions. (Chair needs 4 weeks to read 1st draft)
• December 1: Second complete draft of dissertation submitted to Committee Chair.
• December 15: Student meets with Committee Chair only to define revisions needed before draft is ready for full Committee review.
• January 1: Third complete draft of dissertation submitted to ALL Committee Members. (Allow 4 weeks for Committee Members to thoroughly read the draft)
• February 1: Meeting of full Committee to discuss preparations for scheduling the Defense of the Dissertation.
• February 15: Revised draft, based on full Committee review, is placed on Public Display for two weeks (University requirement)
• March 1: Defense of Dissertation
• March 15: Submission of Revised Dissertation to Committee Chair based on Committee comments at Defense.
• April 1: Signatures of Chair and Committee Members on Dissertation Approval Pages (University requirement)
• April 15: Signature of Dissertation Page by Dean (allow 10 days for receipt of Dean’s signature) and Submission to the Office of Graduate Studies.
• NOTE: Check Academic Calendar for deadline for receipt of Doctoral dissertation papers for degrees. Allow at least 6.5 months from the submission of the 1st complete draft of the dissertation to submission of the final version to the Office of Graduate Studies.

Graduation

A “Step by Step Graduation Guide” from the Graduate Office is available at http://www.udel.edu/gradoffice/polproc/#steps

Deadline for application for advance degree (also available at link above):

All graduate students must file an Application for Advanced Degree in order for the degree to be awarded. The deadline for degree application is September 15 for December degree conferral, December 15 for Winter degree conferral, February 15 for May degree conferral, and May 15 for August degree conferral.

CEEP Graduation Class Gift

A graduating class can decide to give back to CEEP through a Graduation Class Gift. Usually presented at the end of each school year at the graduation ceremony, this gift is given by students wishing to express their gratitude to CEEP and support future efforts of CEEP to educate new classes. A class gift can be given by any graduating graduate class but, considering that Ph.D. students typically graduate at different times, Ph.D.
students who walk (i.e. they have defended their dissertation, but might still be in the final revision stage) join with the graduating Master’s class to present their class gift.

**Preparing for Your Internship**

Internships are an important part of your time here at CEEP. In the summer, you have the opportunity to apply for internships at institutions and organizations outside of CEEP to enrich your professional experience and to gain an understanding of your potential future employment. We recommend that you discuss your ambitions and plans for internships with CEEP’s director and your advisor – they have advised many students and, maybe more importantly, they have a network of organizations and institutions they can provide you with. It is considerably easier to get into an internship if CEEP’s director or your advisor can recommend you. While you are free to apply for the internship of your choice, it is oftentimes better to wait until you have met with your advisor as they can write a recommendation letter or help you in other ways. It is important to recognize that some internships are unpaid positions. The Ph.D.-ENEP program does not require completion of an internship. It is an option you can consider.
RESEARCH AT CEEP

Each year, CEEP operates a multi-project research agenda of collaborative projects among faculty and students. Research at CEEP creates opportunities for students to learn more about the academic research process, for thesis and dissertation development, and enables students to engage in community and professional relationships. Research projects are a valuable component of an education here at CEEP since they provide a means to apply learned theories and skills in a practical and professional setting. CEEP’s research groups are akin to professional employment students will encounter after graduation and, as such, there are certain expectations from CEEP of participants.

To ensure a good working environment, the production of quality research, and to contribute to your future career opportunities, this section briefly outlines the functioning of research here at CEEP. Each research group will be provided with a more detailed document that outlines the particulars of that research project. The approach CEEP utilizes towards a professional working environment is threefold as it contains the following:

1. A matching of research needs with students’ interest;
2. A process for research quality improvement; and
3. A process to address poor performance and misconduct

CEEP tries to align interests with research needs. Orientation is the annual moment at which the CEEP community is informed of the research portfolio of CEEP that will be operated that year. The description of the project will be included in the CEEP Research Portfolio handed out during Orientation and it will give you an initial glimpse into the dimensions of that particular project. It will also contain contact information if you want to find out more about the research project and possibly want to get involved.

You’re encouraged to consider joining a research project. If you want more information about the research project, it is easiest to contact the Student Lead of the project. After identifying your research interests among all the projects listed in the CEEP Research Portfolio, you should send your preferences (1 to 3) to the CEEP Academic Coordinator.

Sometime after Orientation, the research groups will start to convene. It is important that the first research group meeting is attended by Faculty Supervisor (i.e. the main faculty member involved in the project), the Student Lead, and any interested CEEP students. At this meeting, the research objectives and research plan will be discussed. The status of CEEP students in relation to the project (such as, for example, volunteer or research assistant) will be recorded and tasks and responsibilities will be outlined.
CEEP RESEARCH/TEACHING ASSISTANTSHIP POLICY STATEMENT

CEEP provides excellent opportunities for graduate students to contribute to research projects as well as gain teaching experience. CEEP research and teaching assistantships are designed to financially support graduate students and cultivate a culture of co-operative inquiry and academic rigor, enriching them as researchers and instructors.

CEEP researchers work in teams in keeping with CEEP’s holistic and inter-disciplinary character. This offers student researchers at CEEP the unique experience of working closely with people from different academic fields, countries and cultures. The Faculty at CEEP plays a supervisory role giving the projects a definitive direction. The day to day decision making within the project is the responsibility of the student members under the leadership of a Student Lead, nourishing a sense of ownership among the students.

CEEP has limited funding but tries to support all of its graduate students from the second year onwards and tries to align interests with research needs. To ensure fairness in funding decisions, equality in work load distribution and quality of the research conducted, the Center abides by the following research and teaching assistantship policies.

General Student Funding Policy

In accordance with University Policy, an Energy and Environmental Policy graduate student studying with CEEP and receiving a Tuition Scholarship, University Fellowship, or CEEP Research or Teaching Assistantship may not earn income from a second source. Funded students must contribute 20 hours per week to their assignments and the quality of their contribution should meet the high standards of scholarship and analysis expected from professional researchers in the field.

Students with CEEP Research or Teaching Assistant appointments are entitled to the same legal holidays as other University academic personnel. Responsibilities continue through the month of January (after Christmas break) and through the University Spring recess. Students will be required to seek express permission from their faculty advisor and from the Center Director prior to planning time away from the Center, in January and/or after University Spring recess.

Students studying with CEEP who are presently unfunded but hope for future appointment as CEEP Research Assistants must consult with their Faculty advisor and the Center Director before exploring funding opportunities within the University, or with non-University organizations in the field of energy and environmental policy. The Center’s ability to consistently support students by placing them in research assistantships relevant to their interests depends (among other things) upon close relationships with University and non-University agencies. It is important that such relationships are considered in order to ensure favorable long term and fair levels of student support.
Research Assistantship Policy

In-office obligations of RAs

All CEEP graduate students receiving partial or full funding from CEEP research assistantships (RAs) are expected to adhere to the following policies regarding in-office obligations:

- All RAs have an obligation to spend 20 hours per week on their research assignments; 16 of those hours per week must be provided in-office. Project meeting hours will be counted towards the fulfillment of the required in-office research hours. Off-campus RA contributions are permitted but are limited to 4 hours per week.
- All RAs are required to work a minimum of 4 hours in their assigned CEEP office or CEEP Computer Lab between the hours of 9 am and 5 pm on 4 weekdays of each week (University holidays can only be included as a substitute with prior, written approval of your Faculty Supervisor.)
- All RAs have an obligation to fulfill in-office obligations during each semester from September 1-January 15 for fall semester support; and January 16-May 31 for spring semester support. This includes both Winterim & Spring Break.
- Students will be required to seek express permission from their faculty advisor and from the Center Director prior to planning time away from the Center, in January and/or after University Spring recess.
- RAs have no in-office obligations during the University Holiday Break beginning on the last day for submission of fall semester grades and the first weekday opening of University Offices after January 1.
- You must have an In-Office Research Hours Schedule approved by the Faculty Supervisor in writing during the 1st week of each semester. A copy of your In-Office Research Hours Schedule, signed by your Faculty Supervisor, should be provided to CEEP’s Academic Support Coordinator during the 1st week of each semester. (With the permission of the Faculty Supervisor, a student may revise this schedule until the conclusion of the Drop/Add period.)
- ‘Virtual’ or ‘at-home’ contributions are never a substitute for your in-office obligation unless illness or other extraordinary, rare factors prevent your fulfillment of the in-office obligations as a CEEP RA; when illness or other extraordinary, rare factors are present, your must obtain email or written approval from your Faculty Supervisor, with a copy to CEEP’s Academic Support Coordinator.
- The above policies generally apply for students on CEEP Internships (such as the SEU Internship, the Delaware Senate Internship, and the IAC Internship). However, an exception is the In-Office Research Hours Schedule – in-office hours will include those scheduled at the Internship site. All Interns have an obligation to obtain approval from the Faculty Supervisor for your Internship for twice-monthly meetings and for an in-CEEP office presence of at least 4 hours per week.
• All RAs are to sign-in and sign-out at the CEEP reception desk to record their working hours. The sign-in sheet will be available at the desk of the Academic Support Coordinator. Faculty Supervisors will access these records while evaluating your fulfillment of obligations. In the event you have to leave your office for a substantial amount of time (more than one hour), you should, in all fairness, sign-out and then sign-in again.
• Failure to maintain your in-office obligations will affect your priority for future funding and may result in termination of RA support.

RA Obligations for Research Tasks & Deliverables

• Each CEEP research project will have an assigned Faculty Supervisor and Student Lead.
• A Semester/Winterim Research Meetings Schedule will be prepared by the Faculty Supervisor and Student Lead in co-ordination with graduate student members of the research team. This will include weekly in-office meetings of the student members chaired by the Student Lead in addition to meetings chaired by the Faculty Supervisor at least twice a month.
• The Semester Research Meetings Schedule should be finalized for each CEEP research project during the 1st week of each semester. (With the permission of the Faculty Supervisor, a student may revise this schedule until the conclusion of the Drop/Add period.) The Winterim Research Meetings Schedule should be finalized no later than the 2nd Monday of December.
• All RAs are to attend the meetings listed on the Semester as well as Winterim Research Meetings Schedule.
• At meetings on both the Semester and Winterim Research Meetings Schedules, students will have assignments related to research literature reviews, data and document collection, interviews/surveys/focus group sessions (where appropriate), analysis, report writing and other specified tasks.
• Failure to fulfill assignments at meetings will be reported by the Student Lead to the Faculty Supervisor and CEEP’s Director.
• Each RA’s record in meeting assignments will be reviewed by CEEP’s Director before the close of each semester.
• Failure to complete assignments in the fall semester will be considered in the decision of whether to continue winterim-spring RA funding. Failure to complete assignments in the spring semester will be considered in the decision to continue subsequent fall semester RA funding.
• For RAs graduating in the semester under review, failure to complete assignments can affect the decision of whether CEEP’s Director will provide a letter of recommendation, and possibly the Faculty Supervisor’s decision as well.
• In addition, each project will have a research deliverable which will be reviewed and evaluated by the Faculty Supervisor and CEEP’s Director. For the fall semester, the deliverable is the Interim Report. For the Winterim Break, the deliverable is the First Draft of the Full Report. For the spring semester, the deliverables are the Full Report and a project presentation to the community at the EEPSA Student Conference.
• The Interim Report must be submitted no later than the Friday before the University of Delaware announced closing for Thanksgiving Break.
• The First Draft of the Full Report is due by the last Friday of January.
• The Full Report must be submitted no later than the 2nd Friday in April.
• Each Report will be provided in near-publishable quality (‘publishable’ is defined as a paper which meets the standards of analytical rigor, writing quality and scholarship for submission to a journal). Each student member of the research team will have discrete responsibilities identified in the memo accompanying the Report. This memo will be prepared by the Student Lead.
• The Annual EEPSA Conference will normally be held during the first week of May and will be chaired by the winner of CEEP’s prestigious Alumni Achievement Award.
• Each RA’s work will be evaluated in terms of analytical rigor, writing quality and scholarship.
• A poor evaluation of an RA’s contribution to the Interim Report, the First Draft of the Full Report and/or the Full Report will affect funding priority for the following semester and may result in termination of RA support.
• For RAs graduating in the semester under review, a poor evaluation of their Report contribution can affect the decision of whether CEEP’s Director will provide a letter of recommendation, and possibly the Faculty Supervisor’s decision as well.
• The above policies generally apply for students on CEEP Internships (such as the SEU Internship, the Delaware Senate Internship, and the IAC Internship). However, an exception is the Interim Report, the First Draft of the Full Report and/or the Full report. All Interns have an obligation to obtain approval from the Faculty Supervisor for reports to be submitted to the Faculty Supervisor, in addition to submissions required by the supervisor at the Intern site (e.g., the executive director of the DESEU, the Chair of the Delaware Senate Energy & Transit Committee, and the Director of the IAC Program).

Teaching Assistantship Policy

Classroom & In-office obligations of TAs

All CEEP graduate students receiving partial or full funding from CEEP teaching assistantships (TAs) are expected to adhere to the following policies regarding classroom & in-office obligations:

• Unless otherwise approved in writing by the Faculty Instructor, you are expected to arrive 10 minutes before the start of each class for the undergraduate and/or graduate courses to which you have been assigned.
• You must have an Advisement Hours Schedule approved in writing by CEEP’s Director for each undergraduate course to which you have been assigned.
• Your TA Advisement Hours Schedule must include at least 2 weekdays per week with 2 contiguous hours of advisement on each designated day. This schedule
must be maintained throughout each semester. CEEP TAs are expected to coordinate their Advisement Hours Schedules before seeking approval from CEEP’s Director.

- All TA advisement hours must be published on course syllabi and will be conducted in Room 277C.
- A copy of the Advisement Hours Schedule for each course to which you are assigned is to be provided to the Academic Support Coordinator.
- All TAs must also be available for in-office meetings from the Monday of the 3rd week of August through the final date for grade submissions for the fall semester; and from the Monday of the 2nd week of January through the final date for grade submissions for the spring semester. These meetings will include: Sakai-related tasks to publish syllabi, assignments, and readings; a comprehensive review of syllabi, assigned readings and course assignments for the coming semester; any grading concerns; new course development; strategies to improve teaching and learning effectiveness; and other matters decided by CEEP’s Director. TAs are invited to suggest topics.
- In addition, all TAs must be available for a one-hour in-office meeting each week to review and discuss course-related matters.
- All TAs are to sign-in and sign-out at the CEEP reception desk to record their working hours. The sign-in sheet will be available at the desk of the Academic Support Coordinator. Faculty Supervisors will access these records while evaluating your fulfillment of obligations. In the event you have to leave your office for a substantial amount of time (more than one hour), you should, in all fairness, sign-out and then sign-in again.

**TA Obligations for Teaching Tasks & Deliverables**

- You are responsible for all Sakai-related tasks for each course to which you are assigned. This includes but is not limited to publication of the syllabus and all assigned readings on Sakai of each course to which you are assigned.
- TAs assigned to teach classes are expected to prepare Teaching Notes at least 2 weekdays in advance of each class and to review their Notes with the Faculty Instructor either in-office or by email – subject to the preference of the Faculty Instructor.
- The Faculty Instructor will review and report their evaluation of your class preparation (indicated by the quality of your Teaching Notes), the quality of your teaching (indicated by in-class observation and student comments and evaluations), and teaching and learning effectiveness (indicated by the general quality of student course assignments).
- You will also have specified grading responsibilities and these will be evaluated by the Faculty instructor for each course to which you are assigned.
- You must attend all Course Development Meetings occurring in the last two weeks of August, those occurring during the Winterim Break, and those occurring during the Spring Break.
• CEEP’s Director will consider evaluations provided by Faculty Instructors concerning teaching and grading. Attendance at and the quality of participation in Course Development Meetings will also be considered to determine if continued funding on a TA in the spring or a subsequent fall semester is justified. (TA funding is determined by several factors, including but not limited to performance and must consider program objectives and needs.)
**CEPT-EEPSA EVENTS REQUIRING PARTICIPATION**

EEPSA hosts a variety of events throughout the academic year to encourage and celebrate this community’s academic and cultural diversity. The active participation of all EEPSA members is not only required for the success of these events but is also vital to the sustenance of CEEP’s legacy.

Most EEPSA events are voluntary. But every year, EEPSA hosts some events with CEEP. These CEEP-EEPSA events are MANDATORY for all continuing students to attend:

- Orientation (First Monday before fall semester classes begin)
- CEEP-EEPSA Holiday Party (Mid-December)
- EEPSA Student Winter Forum (Late February)
- CEEP Alumni Achievement Award Ceremony (Late April/Early May)
- EEPSA Student Conference (Early May)
- CEEP Convocation (Friday immediately preceding University Commencement)
- Doctoral Dissertation Defenses
- CEEP Colloquia
- Special events (As and when announced)

A detailed event schedule will be noticed at least two weeks before the event to allow students to save the date for attendance. EEPSA will put the schedule on the EEPSA website (http://sites.udel.edu/eepsa/) and EEPSA Google Calendar (http://sites.udel.edu/eepsa/calendar/) as soon as it is decided. Those who cannot attend these required events should obtain approval from your Faculty Supervisor and CEEP Director in advance.
**STUDENT LIFE**

**Energy and Environmental Policy Student Association (EEPSA)**

The Energy and Environmental Policy Student Association (EEPSA) is the main contact-point outside of your own advisor and the overall faculty of CEEP. The EEPSA board consists of seven students – both master and PhD students – that can advise and guide you with any part of student life. It is our mission to make sure new students feel at home in the CEEP community and to help students – both currently enrolled students and new students – with their intellectual pursuit. As such, EEPSA organizes both academic events for academic enrichments and social events. In the past, we have organized a wide variety of different kinds of events such as conferences, workshops, camping trips, and much more. This year, we have a range of activities planned that we hope you will all enjoy.

To stay up to date on the EEPSA activities, check out the group’s website:

https://sites.udel.edu/eepsa/about-eepsa/

The EEPSA board aims to make the interaction between faculty and students go as smoothly as possible. As such, we hold regular EEPSA community meetings so that we can stay up to date on the events and developments within the EEPSA community. Everyone is free to attend these meetings, and if you have ideas or plans you want to share with the rest of CEEP, this is the place to bring these forward. Have a good idea for a new paper but you’re not sure how to start it? Do you think EEPSA should arrange an activity? For these and many more questions and suggestions the EEPSA board meeting is the right place. Many of us have been here for a while and, as such, we have advice and support we can offer for a wide range of topics and concerns.

Make sure to sign up for the EEPSA-listserv, which provides you with a regular update on any news, new activities, or interesting events at UD. Finally, to further smoothen your transition into the CEEP and EEPSA community, we’re starting a mentor program. Each one of you will be assigned a second, third, or fourth-year student as your mentor. Your mentor will help your introduction into the wider group of students and can answer all academic questions you might have. While your advisor is usually the first person to go to for such questions, we recognize that our faculty is already very busy and, as such, might not always have time on a short-term. To help you with questions of an academic nature – such as which courses to take – and to lighten the load on our faculty, your mentor is the right person to approach.

The EEPSA board and the wider CEEP community looks forward to having you as part of the CEEP and EEPSA!

President               Jeongseok Seo
Vice President/Senator Proxy Jiajing Bi (Athena)
Academic Chair          Joseph Nyangon
Career Chair            Cheng-Hao Shih (Jeff)
Community Outreach Chair    Ariella Lewis
Social Chair    Alyssa Bruner
GSG Senator   Aaron (Luke) Smith

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.

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

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

Career Services Center
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:
Getting Started on the CEEP Network

Understanding how to access the CEEP network (from anywhere!) will make your transition all the easier. All CEEP students can access the CEEP network and CEEP shared drive (CEEPStu) from the computer lab at CEEP, from your own computer while at CEEP, and even from home. The CEEPStu contains class readings and assignments, shared documents for research projects, and a dedicated, password-protected space for each student to save their files.

The CEEPStu is administered by our own Dr. Lado Kurdgelashvili. Lado will help you create a username and password (this is not the same as your UD ID and password) to log on to the CEEP computers and, by proxy, the CEEPStu. Once your login is created, we kindly suggest coming to your EEPSA colleagues with IT questions first – as weathered veterans of EEPSA, chances are we’ve had the same questions at some point and can help answer them!

Once you have created your new login info, you can follow these easy steps (you only have to do it once!) to be able to access the UD network (giving you access to databases, journals, and other library resources) and the CEEPStu from home.

1. Download the UD “Virtual Private Network” (VPN) software: http://www.udel.edu/topics/connect/VPN. This will make UD “think” that you are on its own, private network as if you were actually on campus. This will require you to enter you UD user ID and password.

2. Connect to the CEEP server. Go to: http://support.hmdc.harvard.edu/kb-29/finding_and_mapping_shared_drives?mode=guide and follow the instructions.

3. Once you’re connected to the internet while at CEEP (connected to UDelSecure), you then get to the part where you need to put in the address of the network drive. Use the following address:

   - on a MAC: smb://energy.ceep.udel.edu/ceepstu
   - on a PC: \energy.ceep.udel.edu\ceepstu

4. You will use the same login info you created to log in to the computers at CEEP. You are now ready to surf the CEEP network folders as well as access any library and other academic resources.
**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: [http://www.udel.edu/udsis-student](http://www.udel.edu/udsis-student)
- Webviews (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)
- Courses Search: [https://primus.nss.udel.edu/CoursesSearch/](https://primus.nss.udel.edu/CoursesSearch/)
- UD Classifieds: [www.udel.edu/classifieds](http://www.udel.edu/classifieds)

**Useful Information**

**Where to Go on Campus**

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

**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). As a graduate student, you can reserve a carrel in the library to store books and study in a quiet environment. 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 or 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.

Beginning the 2014-15 academic year, the library will be home to an all new graduate student lounge located on the north side or the first floor.
Student Centers

Perkins Student Center (on Academy Street, just past the construction to the south of Graham Hall) Perkins 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) Trabant 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 chose to drive to campus. UD Parking home: http://www.udel.edu/transportation/parking/index.html
The best way to figure out what sort of pass you need is to follow the technocratic money categorization. http://www.udel.edu/transportation/parking/permit-prices.html and remember to take the UD Shuttle (by seeing its location online real-time: http://www.udel.edu/udshuttle/)

Parking Services
325 Academy Street
147 Perkins Student Center
(302)-831-1184
parking@udel.edu

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 Elton Maryland (www.uhcc.com/).

For general primary doctor care, students can 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
For student insurance, the plans that are made available are introduced here:
http://www.udel.edu/studenthealth/insurance/index.html
http://www.udel.edu/RM/student-insurance.html

**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/)

**On main street:**

Lieberman's Bookstore – (www.lubonline.com),

Used Books Only:
Bookateria –70 E Cleveland Ave. (302) 737-4933
Manor Books –1005 N. Dupont Hwy., New Castle, DE (302) 322-5584

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

**How to reserve a room at UD**

One option is to submit a room request form with the Registrars Office: [http://www.udel.edu/registrar/forms/specev.html](http://www.udel.edu/registrar/forms/specev.html).

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**

**Restaurants** (EEPSA members' top picks):

On Main Street:

- Panera Bread (www.panerabread.com)
- Cosi (www.getcosi.com)
- Iron Hill Brewery (www.ironhillbrewery.com)
- Klondike Kates (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 (http://indiansizzler.webs.com/)

Off Main Street:
- Border Cafe - 483 Stanton Christiana Rd (www.bordercafe.com) (cajun/creole)
- Matilda’s – 801 S College Ave., (302) 737-4800
- Claymont Steak Shop – 57 Elkton Rd. (http://www.claymontsteakshop.com/)
- Green 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:
- 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](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:
- Brewed Awakenings - 64 E Main St (best spot for fair trade coffee)
- Brew Ha Ha - 45 E Main St (second floor of “The Gallery,” 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 – 45 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/](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/wccsp/). Other State Parks, see www.destateparks.com/
- Fair Hill Natural Resource Management Area (http://www.dnr.state.md.us/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/)
- 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 – (http://www.udel.edu/SuppSrvc/bus/Unicity.html) (Newark service)
Delaware Area Rapid Transit (DART) - (www.dartfirststate.com)

Zipcar at the University of Delaware
With Zipcar on campus, it just got easier to live without owning a car. (http://www.udel.edu/transportation/zipcar.html)

Delaware
DART buses – offers 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.megabus.com
www.amtrak.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
Ph.D.-ENEP Tutorial Course Registration Form

Please type on form; form is writable

ENEP 666
ENEP 866
ENEP 868
ENEP 870

Semester of Tutorial: ___________________________ Credit Hours: ___________________________
Student Name: ________________________________________________________________
Student ID: ________________________________________________________________
Instructor Name: ____________________________________________________________

Instructor Signature: __________________________________________________________

Summary of the Course Description

Bases for Grading: ________________________________________________________________
# Course Requirements Worksheet

## Energy and Environmental Policy (ENEP)

45 credits required to graduate

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course</th>
<th>Credits</th>
<th>Semester</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Obligatory Courses</strong></td>
<td>ENEP 820</td>
<td>3</td>
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<tr>
<td></td>
<td>ENEP 821</td>
<td>3</td>
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<td>ENEP 863</td>
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<td></td>
<td>ENEP 969</td>
<td>9</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Social Science Requirements (6 credits)</strong></td>
<td>Course 1 from selection</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course 2 from selection</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td><strong>Methods Requirements (6 credits)</strong></td>
<td>Course 1 from selection</td>
<td>3</td>
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<tr>
<td></td>
<td>Course 2 from selection</td>
<td>3</td>
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</tr>
<tr>
<td><strong>Science, Engineering and Public Policy Requirement (3 credits)</strong></td>
<td>Course from selection</td>
<td>3</td>
<td></td>
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</tr>
<tr>
<td><strong>Specialization Coursework</strong></td>
<td>Course 1</td>
<td>3</td>
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<td></td>
<td>Course 2</td>
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<td>Course 3</td>
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<td>Course 4</td>
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<tr>
<td><strong>Qualifying Examination (2 weeks)</strong></td>
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</table>
# Detailed Plan of Study Form

**UNIVERSITY OF DELAWARE** Energy and Environmental Policy Program  
Administered by the Center for Energy and Environmental Policy  
**PhD-ENEP Plan of Study**  
[Also found online at ceep.udel.edu]

## Degree Requirements

### 1. Required Courses

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
<th>Semester/Year</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENEP 821 Technology, Environment and Society (Fall)</td>
<td>3</td>
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<tr>
<td>ENEP 820 International Perspectives on Energy &amp; Environmental Policy (Spring)</td>
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</tr>
</tbody>
</table>

### 2. Methods Requirements

Six credits of methodology course work are selected from the following list of three-credit courses.

**List of methodology courses satisfying the Methodology Requirement:**
- ENEP 660 Engineering Economic Analysis for Sustainable Energy (Fall)
- APEC 807 Math Programming with ECON App (Fall)
- ECON 801 Microeconomics (Fall)
- ECON 802 Macroeconomics (Fall)
- ENWC 615 Wildlife Research Techniques (Spring)
- GEOG 604 GIS for Environmental Research (Spring)
- GEOG 670 Geographic Information Systems and Science (Fall)
- GEOG 671 Advanced Geographic Information Systems (Fall) Not offered in Fall 2015
- MAST 663 Decision Tools for Policy Analysis (Fall)
- MAST 672 Cost-Benefit Analysis (Fall)
- MAST 681 Remote Sensing of the Environment (Fall) - Not offered in 2015 Fall
- POSC 816 Philosophy of Science and Research Design (Fall)
- STAT 608 Statistical Research Methods (Fall & Spring)
- UAPP 691 Quantitative Analysis in the Public and Non-profit Sectors (Fall)
- UAPP 801 Processes of Social Inquiry (Spring)
- UAPP 808 Qualitative Research Methods for Program Evaluation (Spring)

For individuals with strong backgrounds in economics, the following 3-credit methods courses may be added to the above list for selection:
- ECON 803 Applied Econometrics I (Fall)
- ECON 804 Applied Econometrics II (Spring)
- ECON 810 Mathematics for Economics (Fall)
- ECON 822 Econometric Theory I (Fall)
- ECON 823 Econometric Theory II (Spring)

**Note:** All courses on the above list are offered annually.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
<th>Semester/Year</th>
<th>Grade</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>3</td>
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</tbody>
</table>
3. Social Science Requirements

Six credits of social science course work are selected from the following list of 3 credit courses

List of social science courses satisfying the Social Science Requirement:
ENEP 625 Energy Policy and Administration (Fall)
ENEP 626 Climate Change: Science, Policy and Political Economy (Spring)
ENEP 661 Sustainable Energy Finance (Spring)
ENEP 802 Electricity Policy and Planning (Fall)
ENEP 810 Political Economy of the Environment (Fall)
ENEP 824 Sustainable Energy Policy and Planning (Spring)
ENEP 666 Special Problem: Topics in Energy Policy (Fall & Spring)
ENEP 666 Special Problem: Topics in Political Economy of Energy & Environment (Fall & Spring)
ENEP 666 Special Problem: Topics in Sustainable Development (Fall & Spring)
ENEP 666 Special Problem: Comparative Environmental Politics (Fall & Spring)
ENEP 868 Research: Environmental Justice Issues (Fall & Spring)
ENEP 868 Research: Political Economy of Energy & Environment (Fall & Spring)
ENEP 868 Research: Sustainable Development Issues (Fall & Spring)
ENEP 868 Research: Sustainable Energy Policy (Fall & Spring)
ENEP 868 Research: Sustainable Water Policy (Fall & Spring)
ENEP 870 Readings: Climate Change Politics and Policy (Fall & Spring)
ENEP 870 Readings: Energy Economics (Fall & Spring)
ENEP 870 Readings: Energy Policy (Fall & Spring)
ENEP 870 Readings: Environmental Ethics (Fall & Spring)
ENEP 870 Readings: Environmental Justice (Fall & Spring)
ENEP 870 Readings: Political Economy of Energy & Environment (Fall & Spring)
ENEP 870 Readings: Postmodernism and Environmentalism (Fall & Spring)
ENEP 870 Readings: Sustainable Development (Fall & Spring)
ENEP 870 Readings: Sustainable Energy Options (Fall & Spring)
ENEP 870 Readings: Sustainable Water Options (Fall & Spring)
DISA666 Special Problem: Disaster Science and Management (Fall & Spring)
DISA 866 Special Problem: Disaster Science and Management (Fall & Spring)
ECON 862 Topics in Industrial Organization and Regulation (Fall) Not offered in Fall 2015
ENWC 613 Wildlife Policy and Administration (Fall)
GEOG 622 Resources, Development and the Environment (Spring)
MAST 660 International Ocean & Environmental Policy (Fall)
MAST 675 Economics of Natural Resources (Fall)
MAST 676 Environmental Economics (Spring)
SOCI 671 Disasters, Vulnerability and Development (Fall)
UAPP 611 Regional Watershed Management (Spring)

Note: Not all courses on the above list are offered annually.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
<th>Semester/Year</th>
<th>Grade</th>
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<tbody>
<tr>
<td></td>
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</tbody>
</table>

Students complete the science, engineering and public policy requirement by choosing a three-credit graduate course (including a tutorial course with a number such as ENEP 666, ENEP 866, ENEP 868 or ENEP 870) in a natural science or engineering related topic to meet the science, engineering and public policy requirement. The course must be taken with a member of the University's science or engineering faculty and should be linked to the student’s research interest.

Example courses satisfying the Science, Engineering and Public Policy Requirement include (but are not limited to):

- BISC 635 Population Ecology (Spring) Not offered in Spring 2016
- CIEG 632 Chemical Aspects: Environmental Engineering (Fall)
- CIEG 636 Biological Aspects: Environmental Engineering (Fall)
- CIEG 650 Urban Transportation Systems (Fall)
- CIEG 654 Urban Transportation Planning (Spring)
- CIEG 655 Civil Infrastructure Systems (Fall) Not offered in Fall 2015
- CIEG 666 Special Problem: Science & Engineering Aspects of Agricultural Systems (Fall & Spring)
- CIEG 666 Special Problem: Science & Engineering Aspects of Water Systems (Fall & Spring)
- ELEG 620 Photovoltaic Materials and Devices (Fall)
- ELEG 628 Solar Energy Technology and Application (Spring)
- ELEG 637 Energy Systems (Fall)
- ENWC 620 Behavioral Ecology (Spring)
- GEOG 652 Seminar in Climatology (Fall) Not offered in Fall 2015
- MAST 601 Introduction to Oceanography (Fall) Not offered in Fall 2015
- MAST 606 Ocean & Atmosphere Remote Sensing (Spring)
- MEEG 642 Introduction to Fuel Cells (Fall & Spring)

Note: All courses on the above list are offered annually. Please see your faculty advisor and CEEP director for more options.

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
<th>Semester/Year</th>
<th>Grade</th>
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</tbody>
</table>

5. Qualifying Examination in Theory, Methodology and Policy Analysis

Date Passed Qualifying Exam: 

6. Specialization Requirement

Contact the Director of CEEP, ENEP Program Director or CEEP administrative office for more information on the requirements of each of the seven concentrations: Disasters and Policy, Sustainable Energy, Water Sustainability, Environmental

43
Fifteen credit hours including the 3 credit Doctoral Dissertation Proposal (ENEP 863)

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
<th>Semester/Year</th>
<th>Grade</th>
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</thead>
<tbody>
<tr>
<td>ENEP 863 Doctoral Dissertation Proposal</td>
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</table>

7. Doctoral Dissertation Requirement

<table>
<thead>
<tr>
<th>Course Number and Title</th>
<th>Credits</th>
<th>Semester/Year</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENEP 969 Doctoral Dissertation</td>
<td>9</td>
<td></td>
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</tbody>
</table>

Date of Admission to Candidacy: ________________________________________________________________

Justice, Political Ecology, Global Environments, or Sustainable Development. Alternatively, students may design a Specialization with the approval of their faculty advisor.
Dissertation Title:  

Dissertation Committee:  
Chair:  
Member:  
Member:  
Member:  

Approval of Advisor:  ___________________________  Date:  __________________
Recommendation for Candidacy for Doctoral Degree Form

Download: http://www.udel.edu/gradoffice/forms/candidacyform.pdf

Dissertation Approval Form

The following (pages 48-50) is the ENEP PhD Program document to guide preparation of the title, approval and certification pages as approved by Dr. Mary Martin, Associate Vice Provost for Graduate and Professional Education. Please note that all graduating ENEP PhD students must follow this format:
A dissertation submitted to the Faculty of the University of Delaware in partial fulfillment of the requirements for the degree of Doctor in Energy and Environmental Policy

Spring, 2015

Copyright 2015 Student Name
TITLE – ALL IN CAPS

by

Student Name

Approved: 

Name of Cmte Chair, Ph.D.
Professor in charge of the dissertation on behalf of the Advisory Committee

Approved: 

Young-Doo Wang, Ph.D.
Associate Director of the Graduate Energy and Environmental Policy Program*

Approved: 

George H. Watson, Ph.D.
Dean of the College of Arts and Sciences

Approved: 

James Richards, Ph.D.
Vice Provost for Graduate and Professional Education

* This changes for PhD students admitted in fall 2015 and later. Please discuss with CEEP’s Director
I certify that I have read this dissertation and that in my opinion it meets the academic and professional standard required by the University as a dissertation for the degree of Doctor of Philosophy.

Signed: ______________________________

Name of Cmte Chair, Ph.D.
Professor in charge of dissertation

I certify that I have read this dissertation and that in my opinion it meets the academic and professional standard required by the University as a dissertation for the degree of Doctor of Philosophy.

Signed: ______________________________

Name of 2nd Cmte Member from CEEP, Ph.D.
Member of dissertation committee

I certify that I have read this dissertation and that in my opinion it meets the academic and professional standard required by the University as a dissertation for the degree of Doctor of Philosophy.

Signed: ______________________________

Name of 3rd Cmte Member from CEEP OR 1st External Reader, Ph.D.
Member of dissertation committee

I certify that I have read this dissertation and that in my opinion it meets the academic and professional standard required by the University as a dissertation for the degree of Doctor of Philosophy.

Signed: ______________________________

Name of 1st or 2nd External Reader, Ph.D.
Member of dissertation committee

NOTE: Please consult the PhD ENEP Handbook for PhD Committee composition and eligibility policy.