The Summer Program in International Energy Policy and Environmental Assessment is conducted by the UNC-Chapel Hill Institute for the Environment and housed in Cambridge, England (United Kingdom). It provides intensive training in the scientific analysis of environmental impacts of energy use, the relationship between human needs and energy production, and energy policy in a local and national context. It draws on the wealth of environmental expertise at UNC-Chapel Hill (coordinated by the Institute for the Environment), which has a long history of advanced research and teaching in environmental assessment and policy, and the historical setting of Cambridge, England to explore how energy use and environmental impacts are related. The Program explores application of scientific analysis to environmental decisions in the United Kingdom (U.K.), European Union (E.U.) and the United States, using energy technologies as the primary example. It also focuses on development of a carbon budget for the U.K. and U.S.
LOCATION

The Program is conducted each summer from approximately July 1 through August 6 at one of the Colleges of the world-renowned University of Cambridge, with faculty from the Institute for the Environment. It is open to undergraduate and graduate students from both universities, as well as from other universities and colleges in the E.U. and U.S. (space permitting). Summer Program in International Energy Policy and Environmental Assessment students are housed in rooms at one of the University of Cambridge’s Colleges.

COURSEWORK

Classes meet daily (5 days per week) for tutorials to provide instruction in methods needed for environmental assessment within the framework of energy policy in the U.K., E.U. and U.S. In addition, students are formed into small independent research teams and provided an environmental problem of current interest to community sponsors within the U.K. and E.U. to analyze, propose alternative solutions, assess the ability of those solutions to meet specified goals, and justify the selection of the solution meeting those goals most effectively. These problems generally involve the analysis and selection of energy sources in Cambridge or the larger U.K.

Students from UNC-Chapel Hill may receive six hours of academic credit at the Cambridge field site. Three credit hours are earned for ENST 698: Capstone; three more credit hours are earned though ENST 490: International Environmental Policy, Risk and Climate Change.

FACULTY

Dr. Douglas J. Crawford-Brown directs the Summer Program in International Environmental Assessment and Energy Policy. Crawford-Brown is a former director of the Institute for the Environment, and an emeritus professor in Environmental Sciences and Engineering at UNC-Chapel Hill. He is a physicist specializing in environmental risk assessment and its applications in environmental policy.
The Summer Program in International Environmental Assessment and Energy Policy is divided into five weeks of study spread across a series of topics:

**TOPIC 1:** What does sustainability mean, what are the characteristics of a sustainable community, and how do we build one?

**TOPIC 2:** Who are the players in sustainability in the U.S., U.K. and E.U.? What are their policy mechanisms (Clean Development Mechanism, Renewable Obligations Certificates, the carbon market, etc.)?

**TOPIC 3:** What is energy and where do we find it?

**TOPIC 4:** How do we extract and use energy sustainably?

**TOPIC 5:** How do we produce personal, municipal, national and global carbon footprints, and how do we reduce these?

**TOPIC 6:** What is sustainable (non-energy) technology and how do we achieve it?

**TOPIC 7:** How do we assess sustainability with respect to human health risk, and how will adaptation reduce that risk?

**TOPIC 8:** How do we make rational collective decisions on sustainability?
The UNC Institute for the Environment is the multidisciplinary program leading UNC-Chapel Hill’s world-renowned environmental community in educating practitioners, researching and solving global challenges, and informing the public about critical issues. It focuses on four key areas: balancing energy production and environmental quality, protecting human health, supporting environmental policy makers, and developing sustainable community design principles and practices. The Cambridge Field Site is part of a network of IE field sites that also includes locations in Chapel Hill, Highlands, Manteo, and Morehead City, North Carolina, and in Thailand.

TIMING | COST | CREDIT HOURS

All UNC students who have at least rising junior standing are eligible to attend the Summer Program in International Energy Policy and Environmental Assessment (students in earlier years may be accepted if the required background coursework is completed), but preference is given to junior and senior Environmental Science, Environmental Studies, and Environmental Health Science majors. The UNC-Chapel Hill Study Abroad Office in the College of Arts and Sciences coordinates applications for attendance at the Program. The Study Abroad Office has set a mid-February deadline for applications.

The cost of the five-week Summer Program is approximately $5,000, paid in lieu of UNC tuition. This includes course fees, housing and transportation for field excursions, but does not include airfare or meals. Students eligible for financial aid may apply their UNC aid package to this program.

For the Summer Program students enroll in six hours of course credits through the UNC Study Abroad Office that will transfer to on-campus credit at UNC. Students consult with their faculty advisors and undergraduate chairs to decide how the course credits (ENST, ENVR, etc.) will be allocated before leaving the U.S. to attend the Summer Program in Cambridge.

FOR FURTHER DETAILS AND AN APPLICATION

Please contact the Institute for the Environment at (919) 966-9922 or send an email to ie@unc.edu. You may also visit the IE web site at www.ie.unc.edu.