

2008 APPLICATION PROCESS AND ADMISSION REQUIREMENTS

Admission to the program will occur in the fall with an application deadline of November 28 for admission into the Program beginning the subsequent spring semester. Students will be notified of their acceptance into the program by December 12. A number of spaces for early admission are reserved for students who apply to the University specifically to enroll in the Certificate Program. Students who wish early admission should contact us as they prepare their application to the University. The deadlines for these applications will follow in accordance with the admissions deadlines of the home departments.

To apply students need to provide the following information by Friday, November 28 to Ami Nacu-Schmidt, ami@cires.colorado.edu.

- A statement of interest
- Academic transcripts
- A letter of support from a faculty member in their home department

Acceptance will be based on the qualifications of the student, as well as the importance of fostering a diversity of disciplinary representation within the program. Responsibility for accepting students into the Program will be delegated to a committee of the Faculty Affiliates.

Students applying to the Certificate as part of their application to the University should include a statement of interest to the department to which they are applying and upon acceptance to the home department, the admissions committee should forward to the Certificate program manager a list of those students that they would like to have considered for acceptance. The Certificate admissions committee will consider all departmental requests at once and seek diversity in participation.

THE UNIVERSITY OF COLORADO AT BOULDER

Founded in 1876 in Boulder, CU is recognized as one of the outstanding public universities in the United States. The Boulder campus has five colleges and four schools, offering 3,400 courses in over 175 areas of study. CU-Boulder received more than \$214 million in sponsored research awards in 1999-2000. Undergraduate students may work on research projects with faculty through the Undergraduate Research Opportunities Program.



THE COOPERATIVE INSTITUTE FOR RESEARCH IN ENVIRONMENTAL SCIENCES

The Cooperative Institute for Research in Environmental Sciences (CIRES) was established in 1967 to provide a setting for collaborative research and teaching in the wide-ranging disciplines of the environmental sciences. Its mission is to act as a national resource for multidisciplinary research and education in the environmental sciences by providing scientific leadership in basic and applied research relevant to environmental and earth sciences issues, by contributing scientific expertise and resources to environmental science educational programs, and by providing support to facilitate collaborations among scientists at the University of Colorado, the National Oceanic and Atmospheric Administration, and other institutions. CIRES is sponsored jointly by the University of Colorado at Boulder and the Environmental Research Laboratories of the National Oceanic and Atmospheric Administration (NOAA).



COLORADO SCHOOL OF MINES LIBERAL ARTS AND INTERNATIONAL STUDIES

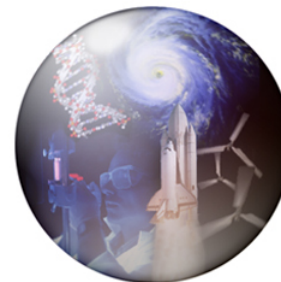
The Division of Liberal Arts and International Studies (LAIS) at the Colorado School of Mines (CSM) provides students with an understanding of the cultural, philosophical, social, political, and economic contexts in which science and engineering function. LAIS offerings enable students to learn how their responsibilities extend beyond the technical mastery of science and technology to the consequences for human society and the rest of life on earth. Because of those larger responsibilities, the LAIS mission includes preparing students for effective political and social thought and action.



Center for Science and Technology Policy Research
Cooperative Institute for Research in Environmental Sciences
University of Colorado at Boulder

Tel: 303.735.0451 Fax: 303.735.1576
<http://sciencepolicy.colorado.edu/stcert/>

Center for Science and Technology Policy Research
Cooperative Institute for Research in Environmental Sciences
University of Colorado at Boulder



University of Colorado Science and Technology Policy Graduate Certificate Program

Center for Science and Technology Policy Research
1333 Grandview Avenue
UCB 488
Boulder, CO 80309-0488
303.735.0451

<http://sciencepolicy.colorado.edu/stcert/>



Graduate Certificate in Science & Technology Policy

Society has a growing need for expertise in science and technology policy. The Graduate Certificate in Science and Technology Policy at the University of Colorado-Boulder, which is being offered in a parallel form at the Colorado School of Mines, is a rigorous educational program to prepare students pursuing graduate degrees for careers at the interface of science, technology, and decision making.

CURRICULUM

Upon completion of the Certificate Program students will have attained a measure of understanding of the broad societal context of science and technology as well as an introduction to methodologies of policy analysis that are used in decision settings related to science and technology. The Program emphasizes two inter-related aspects of the societal context of science and technology, policy context and societal context. These subjects are covered in the first two required courses of the Program, which will be coordinated. The third required course focuses on surveying and gaining basic proficiency in various methodological approaches to policy analysis and research.

The certificate will be awarded upon completion of degree requirements and will require completion of 18 hours of approved coursework. Internship credit will be encouraged and up to 3 hours may count toward the 18 hours of credit needed to complete the certificate. Ph.D. students are expected to incorporate science and technology policy, in some manner (e.g., in one chapter), into their Ph.D. dissertation and include on their committee a member from outside their home department with science and technology policy expertise.

CERTIFICATE COURSES

Required Core Certificate Courses

- **STPC 6000 Science and Technology Policy**
This course focuses on the role of science and technology in supporting policy as well as the role of policies in shaping the practice of science and technology.



- **STPC 6010 Science, Technology and Society**

This course focuses on the role of the expert in society as well as societal influences on science and technology.

- **STPC 6020 Quantitative Methods of Policy Analysis**

This course focuses on disciplinary approaches to policy analysis and research, and will consider both quantitative and qualitative methods.

- **Certificate Elective Courses**

Faculty overseeing the program will develop a set of guidelines for the development and inclusion of elective courses that will comprise the approved elective list. Approved electives for spring 2007 will be posted on the Program website.

FACULTY

- **Wayne Ambler**, Political Science and Classical Greek
- **Krister Andersson**, Politics of environmental governance
- **Susan Avery**, Water and climate decision support; U.S. science policy
- **Rad Byerly**, U.S. science policy, environmental policy, space policy, and the role of Congress
- **Thomas Chase**, Interpretation of climate system models, climate variability and feedbacks, atmosphere-biosphere interactions
- **Benjamin Hale**, Environmental ethics and environmental policy
- **Lisa Keränen**, Rhetoric of science: medicine, health care, and bioethics
- **Paul Komor**, Energy policy, with a focus on renewable energy, energy efficiency, and utility regulation
- **Carl Koval**, Renewable and sustainable energy
- **Sarah Krakoff**, Natural Resources Law, Civil Procedure, and Indian Law

"We devote very little intellectual energy toward improving our incomplete understanding of the science-policy interface and the institutions focusing on this interface. Our scientific and technical abilities far outstrip our decision making methods and ability to understand the relationship between science and its many outcomes."

*Michael Crow, President
Arizona State University*

- **Frank Laird**, Science, energy and environmental policy; technology and politics
- **Juan Lucena**, History of U.S. policymaking for education and human resources
- **Diane McKnight**, Limnology, aquatic ecology, hydrology, polar systems, biogeochemistry, environmental management
- **Jana Milford**, Environmental policy
- **Carl Mitcham**, Science, technology, and society studies; philosophy and ethics of science and technology
- **Paul Ohm**, Criminal Procedure, Intellectual Property, Computer Crime Law
- **Jerry Peterson**, Nuclear astrophysics; applications of nuclear physics
- **Roger Pielke, Jr.**, U.S. science policy, environmental policy, space policy
- **Balaji Rajagopalan**, Decision making under uncertainty, ensemble hydrologic forecast, hydroclimate modeling, interannual climate variability
- **Joseph Ryan**, Contaminant transport in natural waters, acid mine drainage remediation
- **Doug Sicker**, Interaction of technology and policy, and security
- **Mark Squillace**, Natural resources law, environmental law
- **Kathleen Tierney**, Social dimensions of hazards and disasters
- **Phil Weiser**, Interdisciplinary telecommunications, law
- **Tom Yulsman**
Science and environmental journalism, with a specialty in the earth and space sciences
- **Michael Zimmerman**, metaphysical, cultural, ethical, cognitive, political, and religious dimensions of anthropogenic environmental problems

"Our mission is to advance and impart knowledge across a comprehensive range of disciplines to benefit the people of Colorado, the nation, and the world by educating undergraduate and graduate students in the accumulated knowledge of humankind, discovering new knowledge through research and creative work, and fostering critical thought, artistic creativity, professional competence, and responsible citizenship."

*University of Colorado
Mission Statement*