

SPECIAL UNIVERSITY PROGRAMS

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Undergraduate Research Opportunities Program (UROP)

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The following section describes University-wide programs; interdisciplinary study opportunities; preprofessional programs (prelaw, premed/prehealth); off-campus and study abroad programs; and other special programs at UNH.

Honors Program

The University of New Hampshire has a tradition of encouraging academic achievement through its 21 honorary societies, including active chapters of Phi Beta Kappa and Phi Kappa Phi. In 1984, the University took another step toward the recognition of outstanding students by establishing an undergraduate honors program. The University Honors Committee, made up of representatives from all colleges of the University, the Office of Admissions, the Division of Student and Academic Services, and the Registrar's Office, supervises the operation and requirements of the program.

There are two ways to enter the University Honors Program:

1. The Office of Admissions identifies a number of qualified incoming freshmen to be admitted to the honors program.
2. Freshmen who demonstrate academic excellence are also invited to join the program.

Participation in the University Honors Program does not add courses to those required to graduate. The first two years of the program focus on general education requirements. Students take a minimum of four honors-designated general education courses, one of which is an honors seminar based on a special topic. All students must attain a cumulative grade-point average of 3.20 by the end of their sophomore year in order to continue in the honors program.

The upperclass part of the honors program consists of honors work in the majors. Information describing these programs is available in department and college advising offices, in the Honors Program Office, and on-line at www.unh.edu/honors-program/requirements/. Programs with "honors in major" work are animal sciences, anthropology, arts, biochemistry, biology, business administration, chemistry, chemical engineering, civil engineering, classics, communication, communication disorders, computer science, earth sciences, economics, English, electrical and computer engineering, environmental conservation, environmental horticulture, environmental and resource economics, family studies, forestry, French, geography, German, health man-

agement and policy, recreation management and policy, history, hospitality management, humanities, kinesiology (exercise specialist option), linguistics, mathematics, mechanical engineering, medical laboratory science, microbiology, music, nursing, nutritional sciences, occupational therapy, outdoor education, philosophy, physics, plant biology, political science, psychology, Russian, social work, sociology, Spanish, theatre, wildlife management, women's studies, and zoology. Successful completion of University Honors Program requirements entitles the student to receive the designation "University honors in major" on his or her academic record and diploma. Completion of "honors in major" only is similarly denoted.

To satisfy honors program requirements, students must have a final cumulative grade-point average of 3.20 and meet the grade-point average requirements of their honors-in-major program. All courses used to achieve an honors designation must have a minimum grade of B-, and may not be taken pass/fail.

Full-tuition and partial-tuition merit-based scholarships are available to a select number of incoming freshmen. Several partial-tuition scholarships are also awarded to upper-class students. For more information, please contact Lisa MacFarlane, director, University Honors Program, Hood House.

University-Wide Programs

International Research Opportunities Program (IROP)

IROP offers students opportunities for advanced research at the undergraduate level in an international setting, and enables students to collaborate with both UNH faculty members and foreign researchers. IROP integrates an international experience and global awareness with an undergraduate's program of study. IROP awards fellowships to students through a competitive application process; these grants support nine weeks of research during the summer, when students work with the research partners of UNH faculty. Students accepted into the program complete language, cultural, and

research training before leaving the U.S., and share their research and cultural experience upon returning. Projects may include library and archival research, laboratory and field research, creative works and interpretive performance: in short, the full spectrum of inquiry supported by the University of New Hampshire. Research opportunities are available throughout the world. For more information, please contact Prof. Georgeann Murphy, program coordinator, IROP Office, Hood House, (603) 862-1933.

Undergraduate Research Opportunities Program (UROP)

Students can enhance their undergraduate education through collaborative research projects with faculty members. The Undergraduate Research Opportunities Program offers participants the chance to improve research skills and to acquire an understanding of the nature of research in an academic field. Students may apply to the program to receive academic year awards and summer fellowships in support of their research projects. They may conduct their research on campus or at appropriate research sites in the United States and abroad. Participation in the program can also aid students in making choices and developing plans concerning careers and graduate schools. For information, please contact Donna Brown, director, UROP Office, Hood House, (603) 862-4323.

Interdisciplinary Programs

Earth, Oceans, and Space

The Institute for the Study of Earth, Oceans, and Space (EOS) is devoted to obtaining a scientific understanding of the entire Earth system and its environment in space. Research in EOS ranges from the most distant and energetic phenomena in the universe, to the deepest regions of the ocean. EOS scientists are also exploring processes on the Sun, solar influences on Earth and its magnetosphere, the chemistry and dynamics of the atmosphere, changing climate, and large-scale ecosystems in terrestrial and marine environments—emphasizing the complex impacts on and by humans.

The institute brings together under a common theme several established research groups on campus: the Space Science Center, the Climate Change Research Center, the Complex Systems Research Center, and the Ocean Process Analysis Laboratory. The primary educational theme of the institute is to support and expand graduate degree

programs, training future scientists with a global view. However, EOS faculty teach and mentor undergraduate students as well, and there are numerous opportunities for undergraduates to participate with them in the research activities of the institute.

Computer and Information Technology Minor

The computer and information technology (CIT) minor provides students from a variety of nontechnical fields the opportunity to develop an understanding of, and competency in, using computer and information technology. Graduates from many different fields find the need to have (and demonstrate) computer competency, and this minor is intended to fill that need.

The student who minors in CIT must complete a minimum of 20 credits of CIT courses. All students must take CS 402, Survey of Computer Science, as well as a programming course. The other three courses can be chosen from the options list below.

Credit toward the minor will only be given for courses passed with C- or better, and a 2.00 grade-point average must be attained in courses for the minor. Courses taken on the pass/fail basis may not be used for the minor. Students should declare their intent to earn a minor as early as possible and no later than the end of the junior year. During the final term, an application must be made to the student's dean to have the minor shown on the academic record. Students must consult with their major adviser and also the minor supervisor.

Requirements

1. CS 402, Survey of Computer Science
2. A programming course chosen from the following:
 - CS 405, Introduction to Applications Programming with Visual Basic
 - CS 407, Introduction to Computer Programming with Java
 - CS 410, Introduction to Scientific Programming
 - CS 503, Introduction to Client-Side Web Development

Options (At least two of the Options courses must be 500-level)

- CS 401, Computer Applications
- CS 403, Online Network Exploration
- CS 504, Web Design and Development
- CS 505, Database Programming
- CS 506, Intermediate Applications Programming with Visual Basic
- CS 509, Network/System Administration

Students who wish to minor in computer and information technology should consult Israel Yost, Department of Computer Science, 214 Parsons Hall, (603) 862-2245.

Gerontology

(For course descriptions, go to www.undergradcat.unh.edu.)

The gerontology interdisciplinary minor provides students with the opportunity to examine and evaluate the aging process as it affects the individual and society. Through in-depth inquiry, personal encounters, and classroom discussion, students develop an understanding of aging from a variety of perspectives. Students are encouraged to analyze the historical and philosophical foundations from which policies, programs, and professional activities affecting the aged are developed, implemented, and evaluated.

Gerontology minors are required to take a minimum of 20 credits (five courses) from the following list of courses approved by the Gerontology Interdisciplinary Minor Advisory Committee.

- GERO 600, Introduction to Gerontology
- GERO 795, Independent Study (a practicum arranged by the coordinator of the minor, or by the appropriate designee)
- FS 525, Human Development
- HMP 755, Aging and Long-Term Care Policy
- KIN 607, Biology of Aging
- NURS 535, Death and Dying
- NUTR 760, Geriatric Nutrition
- OT 501, Developmental Tasks of Adulthood
- PSYC 582, Adult Development and Aging
- PSYC 741, Cognitive Aging
- SW 525, Introduction to Social Welfare Policy
- SW 550, Human Behavior and Social Environment I
- SW 700, Social Gerontology
- SW 701, Women and Aging
- SOC 720, Current Developments in the Family: Aging and Late-Life Family

Students who wish to minor in gerontology should consult the School of Health and Human Services Dean's Office.

COURSES

GERO 600	Introduction to Gerontology	4 cr.
GERO 795	Independent Study	4 cr.

Intercollege Courses

(For course descriptions, go to www.undergradcat.unh.edu.)

Intercollege courses are listed below. INCO courses include INCO 401, War; INCO 402, Peace; INCO 404, Honors: Freshman Seminar; INCO 410, College; INCO 450, Introduction to Race, Culture, and Power; INCO 480, Art in Society; INCO 585, 586, Foreign Exchange; INCO 604, Honors: Senior Thesis/Project; INCO 655-656, London Program; INCO 685, 686, Study Abroad; and INCO 698, Summer Research Project, and others.

COURSES

INCO 400	Graduate Preparation Seminar	1 cr.
INCO 401	War	4 cr.
INCO 402	Peace	4 cr.
INCO 402H	Honors/Peace	4 cr.
INCO 404	Honors: Introductory Seminar	4 cr.
INCO 404B	Honors: Introductory Seminar	4 cr.
INCO 404C	Honors: Introductory Seminar	4 cr.
INCO 404D	Honors: Introductory Seminar	4 cr.
INCO 404E	Honors: Introductory Seminar	4 cr.
INCO 404F	Honors: Introductory Seminar	4 cr.
INCO 404G	Honors: Introductory Seminar	4 cr.
INCO 404H	Honors: Introductory Seminar	4 cr.
INCO 404J	Honors: Introductory Seminar	4 cr.
INCO 404K	Honors: Introductory Seminar	4 cr.
INCO 404L	Honors: Introductory Seminar	4 cr.
INCO404M	Honors: Introductory Seminar	4 cr.
INCO 404N	Honors: Introductory Seminar	4 cr.
INCO 404O	Honors: Introductory Seminar	4 cr.
INCO 404P	Honors: Introductory Seminar	4 cr.
INCO 404R	Honors: Introductory Seminar	4 cr.
INCO 404S	Honors: Introductory Seminar	4 cr.
INCO 404T	Honors: Introductory Seminar	4 cr.
INCO 404U	Honors: Introductory Seminar	4 cr.
INCO404W	Honors: Introductory Seminar	4 cr.
INCO 404Y	Honors: Introductory Seminar	4 cr.
INCO 410	Introduction to College Teaching	2 cr.
INCO 420	College Transition Seminar	1 to 2 cr.
INCO 444	First Year Seminar	1 cr.
INCO 450	Introduction to Race, Culture and Power	4 cr.
INCO 480	Arts in Society	4 cr.
INCO 501	Introduction to the Research Process	2 cr.
INCO 510	McNair Introduction Seminar	1 to 2 cr.
INCO 530	Writing Consultation Across the Curriculum	2 cr.
INCO 555	Peer Education	1 to 3 cr.
INCO 585	Foreign Exchange	1 to 16 cr.
INCO 586	Foreign Exchange	1 to 16 cr.
INCO 590	Student Research Experience	1 to 4 cr.
INCO 595	Winterim Topics	1 to 4 cr.
INCO595W	Winterim Topics	1 to 4 cr.
INCO 596	Summer Topics	1 to 4 cr.
INCO604H	Honors Senior Thesis	4 or 8 cr.
INCO 610	Research Inquiry Seminar	1 to 2 cr.
INCO 655	London Program	1 to 18 cr.
INCO 656	London Program	1 to 18 cr.
INCO 657	Justice Studies Budapest Program	6 cr.
INCO 680	Sustainable Community Design in India	4 cr.
INCO 681	Relationships Between Humans and Their Local Environment in India	4 cr.
INCO 682	Sustainable Development Internship in India	4 cr.
INCO 685	Study Abroad	4 to 16 cr.
INCO 686	Study Abroad	4 to 16 cr.
INCO 698	Summer Research Project	8 cr.
INCO 699	McNair Summer Internship	cr.
INCO 710	Introduction to Research Methods	2 to 4 cr.
INCO 720	McNair Research Experience	2 to 4 cr.
INCO 730	Writing Consultation Across the Curriculum	2 cr.
INCO 796	Touching the Limits of Knowledge: Cosmology and Our View of the World	1 cr.

International Affairs*

(For course descriptions, go to www.undergradcat.unb.edu.)

The Center for International Education offers undergraduate students the opportunity to pursue a dual major in international affairs. The dual major requires completion of the interdisciplinary international affairs program and any other major.

The purpose of the program is to expand students' global horizons, enhance their disciplinary major, and expand their career opportunities into the international arena.

Required Core Courses

IA 401, International Perspectives: Science, Business, and Politics

IA 501, Global Issues in International Affairs

IA 701, Seminar in International Affairs

Four Electives

Choose one from each of the program's four elective groups

Foreign area (to be taken prior to foreign experience)

Science, technology, and the private sector

Public policy

Theory in international affairs

Competency in Geography

Satisfactory score on geography exam given at the end of IA 401

Competency in a Foreign Language

Functional reading, writing, and speaking ability equivalent to the third-year, second-semester level

Foreign Experience

Minimum of eight weeks in a non-English speaking country

The courses in the dual major program are multidisciplinary, taught by faculty from many different departments in the University. They are designed to help students appreciate the complex interrelationships and interdependencies among nations and peoples and to equip students with the analytical skills and broad perspectives necessary for both public- and private-sector international careers.

*The Department of Civil Engineering has worked with the UNH Center for International Education to develop a dual-major program in civil engineering and international affairs. Civil engineering students participating in this program develop a proficiency in a foreign language and spend at least one semester studying abroad in that language. Students can complete this program in five years or less and do not need to have existing skills in a foreign language to participate. For more information, contact Ray Cook at (603) 862-1411 or by e-mail to ray.cook@unh.edu.

Students who wish to declare international affairs must earn a C or better in IA 401, have declared (or be prepared to declare) a disciplinary major, and have a 2.50 cumulative grade-point average. After declaration, students are expected to maintain at least a 2.50 grade-point average, which is the minimum required for study abroad at UNH.

IA 401, a prerequisite for IA 501, should be taken during the freshman year, and IA 501 no later than spring of the sophomore year. The geography exam will be offered every year at the end of IA 401. Students may take the exam three times, but must pass it before taking IA 701.

The foreign experience (usually completed during the junior year), the foreign experience report, and the foreign language requirement are completed before taking IA 701 in the senior year. To acquire the knowledge, skills, and experience that come from residence in a foreign culture, students may spend an academic year, semester, or summer in an academic institution, in an internship with a private or public organization, or in purposeful travel/research. All foreign experiences must be preapproved by the IA major adviser or the University Committee on International Studies.

The completion of the dual major requires no additional credits for graduation beyond the 128 required of all UNH students.* All coursework required for international affairs must be completed with a grade of C or better. For information, contact the Center for International Education, Hood House, (603) 862-2398.

COURSES

IA 401	International Perspectives: Science, Business, and Politics	4 cr.
IA 501	Global Issues in International Affairs	4 cr.
IA 599	Special Topics	4 cr.
IA 695	Internship	2 to 4 cr.
IA 699	Topics	4 cr.
IA 701	Seminar	4 cr.

Marine Sciences

Undergraduate programs in marine science and ocean engineering at the University of New Hampshire reflect the diversity of the ocean itself and are enriched by easy access to a variety of natural laboratories, including tidal rivers, estuaries, coastal areas, and the open ocean.

Studies in marine science and ocean engineering are offered through various departments of the University. Students identify the discipline (ranging from zoology through earth sciences to mechanical engi-

neering) they like best and pursue marine specializations related to that area of study. Studies can take place in research laboratories on campus as well as at various field stations or aboard UNH research vessels.

Marine Program

The Marine Program provides a campus-wide umbrella for marine activities and maintains specialized facilities to support efforts of faculty in individual departments and organized research units. Academic programs are focused broadly on marine biology, ocean engineering, and ocean science, and the Marine Program supports experiential learning opportunities beyond the formal classroom through three centers, the Center for Marine Biology, the Center for Ocean Engineering, and the Center for Ocean Sciences.

Estuarine research is pursued at the Jackson Estuarine Laboratory on Great Bay, which is designated a National Estuarine Research Reserve. The Coastal Marine Laboratory, a major running-seawater facility, is located in nearby Newcastle. Research on salmonids and other freshwater animals is conducted at the Anadromous Fish and Aquatic Invertebrate Research Laboratory, located near the Durham reservoir. The Institute for the Study of Earth, Oceans, and Space is a major center for ocean sciences research. The on-campus Chase Ocean Engineering Laboratory houses both educational and research activities. Off-shore and coastal studies are carried out aboard the University's 50-foot research vessel, the *Gulf Challenger*, which has docking facilities at the Jackson Lab and at the State Fish Pier in Portsmouth Harbor. During the summer, students may live and study at the Shoals Marine Laboratory on Appledore Island, one of the Isles of Shoals. There UNH and Cornell University cooperatively offer undergraduate courses in marine sciences in a summer field laboratory setting. Each of the marine program facilities features modern specialized equipment and opportunities for undergraduate students to work and carry out independent research.

Curricula in the Marine Sciences

There are currently two undergraduate majors and four minors in the marine sciences. The College of Life Sciences and Agriculture offers a B.S. in biology with an option in marine and freshwater biology (see biology under COLSA) and the Department of Earth Sciences offers an option in oceanography as part of its B.A. earth sciences program (see page 71). In addition to these

offerings, students can declare a major in any established discipline and augment it with a minor in marine biology, ocean engineering, oceanography, or wetland ecology.

Students are encouraged to declare their intention to follow these programs as soon as possible.

Marine Biology Minor

The minor in marine biology is available to all students in the University interested in obtaining a broad background in marine biology. The minor consists of 20 credits with grades of C- or better and no pass/fail courses. No more than 8 major requirement credits may be used. All courses in the program are selected in consultation with a minor adviser. Contact Dr. Larry Harris, (603) 862-3897, Department of Zoology, for more information.

Students who want to minor in marine biology must take one introductory course (ESCI 501, Introduction to Oceanography; ZOOL/PBIO 503, Introduction to Marine Biology; or ZOOL 674, Field Marine Science) and four courses concentrating on an area of interest. For example, a student interested in marine mammals might take Mammalogy (ZOOL 712), Marine Invertebrate Evolution and Ecology (ZOOL 628), Marine Vertebrates (ZOOL 753), and Fisheries Biology (ZOOL 772). Courses commonly taken as part of the minor include BCHM 702; EREC 610, 611; NR 610; PBIO 625, 721, 722, 725, 727; ENE 747; MICR 707, 714; ZOOL/PBIO 503 and ZOOL 610, 611, 628, 674, 710, 711, 720, 722, 730, 750, 751, 753, 772, 773, 775, 795. In addition, students are encouraged to become involved in a research project, either by working in a professor's laboratory or by participating in the Undergraduate Ocean Research Program (TECH 797).

Students should declare their intention to minor in marine biology before the end of the junior year. During the final term, students should apply to the dean to have the minor shown on their transcript.

Ocean Engineering Minor

The ocean engineering minor allows undergraduate engineering students to acquire a nucleus of knowledge about engineering pertaining to the ocean and the coastal zone.

To meet the University minor requirement, students must satisfactorily complete a minimum of five courses from the following list: ESCI 501, Introduction to Oceanography; OE 690, Introduction to Ocean Engineering; ESCI 752, Chemical Oceanography; ESCI 758, Introductory Physical Oceanog-

raphy; ESCI 759, Geological Oceanography; OE 710, Ocean Measurements Lab; OE 744, Corrosion; OE 753, Ocean Hydrodynamics; OE 754, Ocean Waves and Tides; OE 756, Principles of Naval Architecture and Model Testing; OE 770, Introduction to Ocean Mapping; OE 771, Geodesy and Positioning for Ocean Mapping; OE 781, OE 785, Underwater Acoustics; OE 795, Special Topics in Ocean Engineering; ENE 747, Introduction to Marine Pollution and Control; OE 757, Coastal Engineering and Processes; and TECH 797, Undergraduate Ocean Research Program. Ordinarily, students typically take ESCI 501, TECH 797, and OE 690 plus two additional engineering courses from the above list to complete the minor.

Students wishing to take the ocean engineering minor should indicate their interest to the ocean engineering minor adviser, Dr. Kenneth C. Baldwin, (603) 862-1898, Department of Mechanical Engineering, no later than the beginning of the junior year. During the final semester, students must apply to the dean to have the minor shown on their transcript.

Oceanography Minor

The minor in oceanography is available to all students in the University interested in obtaining a broad background in oceanography and is offered through the Department of Earth Sciences. The minor consists of a minimum of five courses with grades of C (2.00) or better and no pass/fail courses. No more than 8 major requirement credits may be used. All courses in the program are selected in consultation with the oceanography minor adviser, James Pringle, (603) 862-5000, Department of Earth Sciences.

Required courses include 1) ESCI 501, Introduction to Oceanography; 2) two of the following courses: ESCI 750, Biological Oceanography; ESCI 752, Chemical Oceanography; ESCI 758, Introductory Physical Oceanography; ESCI 759, Geological Oceanography; 3) any two of the following courses, or a suitable substitute approved by the minor adviser (at least one of these courses should be in the biological sciences): PBIO 625, 722; CIE 757; ENE 747, 753; ESCI 653, 658, 754, 756, 760, 770, 771; MICR 707; OE 690, 710, 753, 754, 757, 785; EREC 611; TECH 797; ZOOL 503, 560, 674, 720, 725, 730, 751, 753, 772, 775; ZOOL/ESCI/750.

Students are encouraged to declare their intention to minor in oceanography before the end of the junior year. During the final semester, students should apply to the dean to have the minor shown on their transcript.

Wetland Ecology

The minor in wetland ecology, offered through the natural resources department, is available to all students in the University interested in additional background in wetland ecology. More information is available from Dr. David Burdick, (603) 862-5129, natural resources department.

The following courses must be completed with at least a C- or better. No more than 8 credits may be used to satisfy the requirements of both the major and the minor programs: NR 504 Freshwater Resources or NR 703 Watershed WQ Management and 711 Wetland Resources Management and at least one of the following: NR 716 Wetland Delineation; NR 719 Wetland Mitigation and Restoration; or ZOOL 708 Stream Ecology. Elective courses, to make a total of 20 credits, may be chosen from plant survey taxonomy or identification courses, soil survey taxonomy or identification courses; or NR 602, NR 721, ZOOL 725, ESCI 653, NR 527, NR 765, MICR 713.

Students should declare their intention to minor in wetland ecology before the end of the junior year. During the final term, students should apply to the dean to have the minor shown on their transcript.

Shoals Marine Laboratory

The University of New Hampshire, in cooperation with Cornell University, offers a summer field program in marine sciences on Appledore Island of the Isles of Shoals. Undergraduate courses introduce students to a broad array of marine sciences, including oceanography, marine biology, fisheries, and marine resources. Introduction to Marine Science (ZOOL 474), a three-week, 4-credit course, is offered every other summer at the Shoals Marine Lab. It has no prerequisites and satisfies the general education requirement in the biological sciences. The four-week, 6-credit general courses, Field Marine Science (ZOOL 674) and Field Marine Biology and Ecology (ZOOL 675), are offered in June and mid-July, respectively, each summer. They draw upon the backgrounds of numerous faculty and others associated with marine science and fisheries. There are daily lectures and work in laboratory and field. The courses are graded on a letter-grade basis; at least one full year of college biology or the equivalent is a prerequisite.

Other credit courses are offered in marine botany, invertebrate zoology, experimental ecology, ornithology, animal behavior, fish ecology, coastal ecology and

bioclimatology, wetlands, marine vertebrates, coastal policy, underwater research, and biological illustration.

Undergraduate research for credit is an option where students carry out part or all of an independent project at Shoals under the guidance of Shoals faculty. Shoals offers generous financial aid to UNH students outside of the normal UNH financial aid packages. For further information, contact Dr. Jessica Bolker at (603) 862-0071, Department of Zoology.

Diving Program

The UNH diving program offers instruction in SCUBA diving and research diving techniques. It also provides professional diving support for underwater research. The Shoals Marine Laboratory offers courses in marine archaeology and underwater research during the summer, under the guidelines of UNH diving regulations. For further information, contact Liz Kintzing, diving program officer, through the Diving Program Office, Field House, (603) 862-3896.

Marine Research

There are many opportunities for undergraduates to participate in marine research under the supervision of UNH faculty.

The University has a Sea Grant College Program that supports research, teaching, and service projects through numerous partnerships with the National Oceanic and Atmospheric Administration. Marine research projects are also supported through the National Science Foundation, the Environmental Protection Agency, the Office of Naval Research, and other state and federal agencies, foundations and private donors.

Extensive research, interdisciplinary academic programs, and the extraordinary variety of marine environments and facilities allow students to observe and learn about the frontiers of science and technology being explored in the ocean. For further information about marine opportunities, contact the Marine Program Office in the Jere A. Chase Ocean Engineering Laboratory or through the Marine Program Web site at marine.unh.edu.

Race, Culture, and Power

How does the category of race shape our lives, our politics, and our possibilities? Events in this country and internationally constantly remind us that race is an explosive issue. To be able to function as citizens of the world, one must understand the dynamics of race, culture, and power.

This minor reflects intellectual currents now being felt around the world. It prepares students to live in the twenty-first century.

Courses for the minor enable students to develop critical perspectives on the ways in which cultural differentiation and racial explanations have been used to maintain social, economic, and political power and justify inequalities and injustices.

To complete the minor, students are required to take one of the following three courses: INCO 450, an introductory course, ANTH 760: Race in Global Perspectives, or EDUC 797/897; Teaching Race, in addition to 16 credits of electives. Students must earn a C- or better in each course, and must maintain a 2.00 grade-point average in courses taken for the minor.

Elective Courses

Electives are approved for the minor and announced each semester in the *Time and Room Schedule*. Ordinarily, not more than two electives may be taken from the same academic department. A relevant internship may be substituted for one of the electives. Many electives are special topics and require student petition. Students should consult the minor coordinator before registration.

For more information and to be assigned an adviser for the race, culture, and power minor, contact: Mimi Winder, administrative assistant; Race, Culture, and Power, 329 Huddleston, (603) 862-3753, mimi.winder@unh.edu or Nina Glick Schiller, Race, Culture, and Power coordinator, Department of Anthropology, 315 Huddleston, e-mail nina.glickschiller@unh.edu, (603) 862-1848.

Student-Designed Majors

Under special circumstances, students may design their own majors. This option is offered for highly motivated and self-disciplined students who seek a course of study that is not available through existing programs at the University. It allows students, with the close supervision of faculty members, to cross department and college lines and to create educational experiences on and off campus as part of individual programs of study.

Student-designed majors are administered by a committee of elected faculty that operates through the Office of the Provost and Executive Vice President for Academic Affairs. Students who want to design their own majors are expected to give the committee evidence of careful thought and planning

in a proposal submitted on or before October 15 during the student's junior year. The committee will convene soon after October 15 to review the proposals.

Submissions after this deadline are strongly discouraged, but if an application is late for reasons beyond the student's control, the SDM Committee may review the application on a case-by-case basis.

Proposal guidelines are available in the Office of the Provost and Executive Vice President for Academic Affairs and on the Academic Affairs Web site, www.unh.edu/academic-affairs. Click on "Undergraduate Students."

War and Peace Studies

War is the scourge of humankind. Tribes, cities, and nations have gone to war against each other for as long as we have records; only here and there, among some small "pre-civilized" groups, has war been absent or strictly controlled. For as long as we have records, too, we find thoughtful people crying out against war and pleading for peace, arguing for principles to govern war's conduct and laboring to mitigate war's effects, imagining a world where war is abolished, and taking steps to bring that world about. As the scale of war has grown to a size now great enough to devastate the entire globe in a single conflict, more and more people have devoted themselves to preventing war and finding acceptable substitutes. In the nuclear era, age-old moral and religious discussion has joined with historical study and practical, even technical, research to produce a set of related disciplines sometimes called "war and peace studies."

To meet the requirements for the war and peace studies minor, students must complete two core courses (8 credits) and 12 credits of elective courses with a grade of C- or better. Ordinarily no two electives (or no more than 4 credits) may be taken from the same academic department. No elective may count for both a student's major and the war and peace minor. A relevant internship may be substituted for one of the electives. As they are announced, other relevant courses may be added to the list of acceptable electives. Students may request others not so listed. Courses carrying fewer than four credits will be counted as partial satisfaction of an elective requirement. If a good case can be made for it, a departure from any of these rules may be approved by the adviser for the minor and the coordinator.

All students will be assigned an adviser from the membership of the Committee on War and Peace Studies, ordinarily one not

in the student's major department. The adviser will assist students in constructing a coherent program that suits their particular interests.

The core courses are INCO 401, War, and INCO 402, Peace. Occasionally a new core course may be included.

Departmental elective courses will include courses such as these

AERO 681, National Security Forces in Contemporary American Society (3 cr.)
 CMN 456, Propaganda and Persuasion
 HIST 617, Vietnam War
 HIST 537, Espionage and History
 NR 435, Contemporary Conservation Issues and Environmental Awareness
 POLT 562, Strategy and National Security Policy
 POLT 778, International Organization
 SOC 780, Social Conflict

Special offerings that may serve as electives

ANTH 797, Advanced Topics in Anthropology (e.g., War and Complex Society)
 ECON 698, Topics in Economics (e.g., Economics of War and Peace)
 ENGL 595, Literary Topics; ENGL 693, 694, Special Topics in Literature; ENGL 797, 798, Special Studies in Literature (e.g., Literature of World War I, Literature of the Vietnam War)
 HIST 600, Advanced Explorations (e.g., Comparative Revolutions)
 HUMA 730, Special Studies (e.g., Nonviolence, Thinking about War and Peace)
 INCO 404P, Honors: Introductory Seminar (e.g., Understanding War)
 POLT 660, Special Topics in International Politics (e.g., Arms Control and Disarmament)

For more information, contact either Ken Fuld, Department of Psychology, or Michael Ferber, Department of English.

Preprofessional Programs

Prelaw

Many graduates of UNH attend law school. The faculty and staff advisers of the Prelaw Advising Committee work closely with students to identify interests and explore opportunities within legal education. The committee helps students undertake the best possible preparation for legal education while also bringing the excitement of law to UNH students. The committee achieves this goal through careful consideration of the American Bar Association's (ABA) statement on preparation for legal education (found on

the Web at www.abanet.org/legaled/pre-law/prep.html).

In that statement, the ABA explains why no single major or course is required or recommended for students wishing to explore or prepare for legal study. The ABA does, however, describe certain skills and values that are essential to success in law school and to life as a lawyer. Those skills include analytic and problem solving skills; critical reading abilities; writing skills; oral communication and listening abilities; general research skills; task organization and management skills; and the values of serving others and promoting justice.

Prelaw advising implements the ABA statement by working with student interests and strengths to select UNH courses, internships, and experiences that will develop those skills and values. Programmatically, the committee provides a prelaw library, visits to local law schools, and sponsors discussions with law school admission and financial aid representatives, and with members of the legal community. The committee also provides support for LSAT preparation, law school search, writing personal statements, and the application and selection processes.

Interested students should register with the committee by contacting the University Advising and Career Center, Hood House, at (603) 862-2064. Additional information is available on the Web at www.unh.edu/pre-law-advising/.

Premedical/Prehealth Care Professional Study

The Premedical/Predental Advising Office in Hood House provides advising for all students preparing for postgraduate careers in medicine, dentistry, optometry, chiropractics, podiatry, physical therapy, and physician assistant programs (for information on the preveterinary medicine option in animal sciences, see page 101). There is no premedical or predental major at UNH, so students are encouraged to major in the subject of most interest to them. A student's major is not considered in the medical school application process and students from majors in all five UNH colleges have been admitted to postgraduate health professional programs. Though premedical/predental is not a major, interested students are expected to register with the Premedical/Predental Advising Office in Hood House as soon as possible so as to be kept informed of important events, opportunities, and deadlines.

A premedical/pre dental program at UNH consists of the following:

1. Taking the prerequisite courses for admission to a health professional program. Medical and dental schools generally require biology, physics, general chemistry, and organic chemistry—all two semesters each with laboratory. A semester of biochemistry is also required. A year of English is required, as is one year of math including at least one semester of calculus. Prerequisite courses can be taken as part of a student's major curriculum, as part of the general education requirements, or as electives.
2. Gaining volunteer/health care experience. Applicants to health professional programs will be expected to demonstrate a sustained involvement in volunteer and community service. A significant portion of this experience must take place in a health professional setting and include direct patient contact. Most students gain this experience by volunteering at a hospital, though volunteer opportunities are available in a wide range of settings, including nursing homes and community clinics.
3. Preparing for the requisite entrance exam. Students applying to medical school are required to take the MCAT exam. Students applying to dental programs are required to take the DAT, and applicants to optometry programs take the OAT. The MCAT, DAT, and OAT are standardized, comprehensive exams that test students' knowledge of biological and physical sciences as well as verbal reasoning and writing skills. Exams are usually taken by students no earlier than the spring of their junior year and should be taken only if the student has completed or is within a month of completing prerequisite coursework. Students applying for physician assistant and physical therapy programs are required to take the GRE, a more general exam similar to the SAT in structure and content.

Application process

The Premedical/Pre dental Advising Office works with the Premedical/Pre dental Advisory Committee—a body of 10–12 UNH faculty members with interest and/or experience in medical/dental education—to provide students with comprehensive confidential recommendation services at the time of application. An orientation meeting is held each September to outline the application process and establish timetables/deadlines. Students should note that the medical and

dental school application process begins a full two years before matriculation; i.e., in the fall of a student's junior year if they wish acceptance following graduation. However, a delay of a year or more between graduation and admission is neither unusual nor detrimental, and in many cases, students can use this time to improve their credentials by taking additional courses and/or gaining exposure to the profession.

It is important that students understand that in order to gain admission to a health professional program they must not only satisfy the prerequisite requirements, they must satisfy these requirements at a high level of achievement. The Premedical/Pre dental Advising Office can provide students with information on competitive grade-point average and entrance exam scores for each of the postgraduate health professional programs.

The Premedical/Pre dental Advising Office is located in Hood House and can be contacted by phone at (603) 862-2064 or by e-mail at Premed.Advising@unh.edu. The office also has a Web site at www.unh.edu/premed-advising.

Off-Campus Programs

UNH/UNHM Cross Registration

Matriculated students at the University of New Hampshire and the University of New Hampshire at Manchester may take UNH courses at either location. Students must have permission from their academic advisers and must register for the courses on a space-available basis. For more information and special registration forms, students should contact James Wolf, associate registrar, Stoke Hall, or Regina McCarthy, director of academic counseling, UNHM. See page 152 for UNHM course listings.

Consortium (NHCUC) Student Exchange Program

Under the Student Exchange Program of the New Hampshire College and University Council (NHCUC), UNH students may be eligible to enroll for one course per semester, one semester of courses, or a full year of coursework at a member school, on a space-available basis. The consortium exchange allows matriculated undergraduates to use educational resources that are not available at the home campus and are considered appropriate for their degree programs. The consortium exchange will be used only when

academic reasons or other special circumstances warrant it. Approval of the UNH adviser and college dean is required. Schools in the NHCUC consortium include Colby-Sawyer College, Daniel Webster College, Franklin Pierce College, New England College, Southern New Hampshire University, Rivier College, St. Anselm College, UNH, Keene State College, and Plymouth State University. Students will remain as degree candidates and continue to pay normal UNH tuition and fees, but must make their own room and board arrangements if they plan to spend a full semester at another consortium school. For more information and application forms, students should contact the National Student Exchange Office in Hood House, (603) 862-3485.

New England Land-Grant Exchange Program

In order to provide students at the New England land-grant universities with expanded access to unique programs and faculty expertise, the institutions have agreed to encourage student exchanges of one, but not more than two, semesters. To qualify, students must identify a course or combination of courses related to their area of academic interest and not available on their home campus, be degree candidates in good standing with at least a 2.50 grade-point average, be at least first-semester sophomores, and receive permission from the appropriate university exchange authorities at both the home and host institutions. Interested students should contact the National Student Exchange Office in Hood House, (603) 862-3485.

Exchange Programs Within the U.S.

The University offers many possibilities for exchange study with other American institutions. Exchange programs provide an educational experience in a different environment within the United States. It is hoped that students will develop new ways of viewing the country and expand their knowledge of our complex society.

Through the National Student Exchange, UNH students can study at more than 170 colleges and universities throughout the U.S. and its territories (including, but not limited to, Montana, New Mexico, Utah, Colorado, Florida, Alaska, and Puerto Rico). Several historically black colleges and universities are exchange members and several are members of the Hispanic Association of Colleges and Universities. In addition, a

one-semester or full-year exchange program is available with the University of California, Santa Cruz.

To qualify for exchange study, students must be full-time undergraduate degree candidates with at least a 2.50 grade-point average, have declared a major, receive permission from their college dean and adviser, and receive permission from the exchange coordinator.

Students in exchange programs are expected to return to UNH to complete their studies. Participation in an exchange program does not disrupt the continuity of a student's educational process. Exchange program participants continue to maintain their status as UNH students, even while temporarily located at another university. Students thus do not have to withdraw from UNH and later be readmitted. Maintaining UNH student status also facilitates reentry into classes, on-campus housing, and many other dimensions of University life.

Interested students should contact the National Student Exchange Office in Hood House, (603) 862-3485.

Study Abroad Programs

The University offers opportunities for full-time degree candidates meeting eligibility criteria to study abroad in many foreign institutions. UNH-managed programs are described below. Students may study abroad in other locations through UNH-approved programs by using the intercollegiate option (INCO). All students who study abroad pay a study abroad or exchange fee. For information on study abroad programs, students should contact the Center for International Education or the department identified in the UNH-managed program descriptions.

Study Abroad Eligibility

Students enrolled in UNH baccalaureate degree programs may participate in approved study abroad programs provided they meet the following eligibility criteria:

1. must have earned at least 32 credit hours, at least 12 of which must have been earned at the University of New Hampshire at the baccalaureate level;
2. must have a minimum of 2.5 cumulative grade point average at the time of application to and at the time of departure for the study abroad program. Study abroad programs provided by UNH or other

approved institutions may have higher minimum GPA requirements;

3. must have a declared major.

Transfer students, including transfer students from the Thompson School of Applied Science (TSAS) are not eligible to study abroad during the first semester of their baccalaureate program at UNH.

Students enrolled in the degree programs of the Thompson School of Applied Science may participate in approved study abroad programs appropriate for two-year degree candidates. TSAS students must meet the following eligibility criteria:

1. must have earned 32 credits, at least 12 of which must have been earned at the University of New Hampshire at the associate degree level;
2. must have a minimum 2.5 cumulative grade point average at the time of application to and at the time of departure for the study abroad program. Study abroad programs provided by UNH or other approved institutions may have higher minimum GPA requirements.

Canada

New England/Québec Student Exchange Program

Students may spend one or two semesters at one of twenty French- or three English-speaking universities in the province of Québec. Eligibility requirements include a command of the language of the host campus, U.S. citizenship, and at least sophomore standing. Contact the Center for International Education, Hood House, (603) 862-2398 or study.abroad@unh.edu.

New England/Nova Scotia Student Exchange Program

Students may spend one or two semesters at one of eleven participating Nova Scotia institutions offering programs in the liberal arts, agriculture, business, engineering, art, and other fields. Eligibility requirements include U.S. citizenship and at least sophomore standing. Contact the Center for International Education, Hood House, (603) 862-2398 or study.abroad@unh.edu.

England

Cambridge Summer Program

For six weeks each summer, students from across the United States have the opportunity to participate in the UNH Cambridge

Summer Program held at Cambridge University in England. Program participants take courses in English, history, and the humanities, taught by faculty from Cambridge University and UNH. Students live, dine, study, and socialize together at Gonville and Caius College, one of the oldest colleges at Cambridge. The program is open to students who have successfully completed at least one year of college; participation fulfills UNH's general education requirement under Group 5. For more information, contact the director at the Department of English, Cambridge Program Office, 53 Hamilton Smith Hall, www.unh.edu/cambridge.

Lancaster Exchange Program

Lancaster University is a comprehensive university similar to UNH in size, setting, and program offerings. The program allows students to spend a semester or a year in Lancaster while still making normal progress toward their UNH degree. Contact the Center for International Education, Hood House, (603) 862-2398 or study.abroad@unh.edu.

London Program

At Regent's College in the heart of London, the University of New Hampshire sponsors courses in British studies, the arts, humanities, and a wide range of other basic subjects offered during the fall and spring semesters. Taught by British and American faculty members, many of the courses are specifically concerned with British studies or have a special British emphasis. The program allows students to spend a semester or year in London while still making normal progress toward their U.S. degrees. To be eligible, students must have successfully completed at least one year of college, declared a major, and achieved an overall grade-point average of at least 2.50. Interested students should contact the program coordinator, London Program Office, 53 Hamilton Smith Hall, www.unh.edu/london.

France

Summer French Language Program in Brest

Qualified students in any major may take the equivalent of FREN 503 and/or 504, the UNH intermediate French sequence, the equivalent of FREN 631 and/or 632, and/or FREN 695, a more advanced language course not offered on the UNH campus. A port city in the province of Brittany in western France, Brest is the sister city of Portsmouth, New Hampshire.

The courses are offered summer only in intensive four-week sessions at the Centre International D'Etudes des Langues (CIEL). Students generally live with local families and attend classes a total of 24 hours per week. Credit for courses completed successfully will be automatically transferred to UNH. Application deadline is April 1 for June session and April 15 for July session. For more information contact Barbara Cooper, Department of Languages, Literatures, and Cultures, Murkland Hall, (603) 862-3771.

Junior Year Program in Dijon

The Department of Languages, Literatures, and Cultures sponsors a junior year abroad program at the University of Burgundy in Dijon, France. Students generally live with French families in the heart of this historic city and take classes at the university with French students. Credit for all work completed successfully will be automatically transferred to UNH. The program is open to those who have completed FREN 631-632 and FREN 651-652, with a grade of B- or better. For more information, see Claire Malarte Feldman, Department of Languages, Literatures, and Cultures, Murkland Hall, (603) 862-1303.

Business Administration Program in Grenoble

The New England State Universities offer a spring semester of study in international marketing at the Group ESC Grenoble. This is an opportunity for students interested in international business, economics, and trade to participate in an English-speaking program while gaining exposure to French culture. The semester will begin early in January with a one-week orientation and introduction to France, followed by two weeks of intensive French language. Students will be assessed and placed in the appropriate level.

Students enroll into five or six-week courses and can earn up to 18 credits a semester. Students who successfully complete six courses receive a Certificate in International Business from Group ESC Grenoble. For more information, contact Karen Schwendeman, WSBE, McConnell Hall, (603) 862-3885 or the Center for International Education, Hood House, (603) 862-2398, e-mail study.abroad@unh.edu.

French Program in Paris

A spring semester program for intermediate-level students in Paris, France (see FREN 582/682). The program is open to all qualified students at UNH who have completed FREN 501 or higher. Courses

include one French language course and four additional courses taught in English; general education and French minor credit are available. The deadline for applications is October 15, therefore students interested in this program should consult with the UNH on-campus director in the late spring or early in the fall semester. Contact Juliette Rogers, Department of Languages, Literatures, and Cultures, Murkland Hall, (603) 862-1068.

German-Speaking Countries

Students may study for a semester or a full year through any approved American study abroad program or, in special cases, by applying directly to universities in Germany, Austria or Switzerland. Most programs require a minimum grade-point average of 3.00 and a B average in the major. Programs vary greatly in academic focus, size, language of instruction, living arrangements, services and extra-curricular programming provided, and cost. Some programs accept students only for a full year. Study abroad goals and requirements should be discussed with a German adviser as early as freshman year. Program and application materials may be obtained through the Center for International Education in Hood House. For credit in the German major or minor, the program must be conducted in German. After consultation with the major adviser and the study abroad adviser to establish possible UNH course equivalents and fulfillment of major and/or general education requirements, students submit a Prior Approval Form indicating the planned course of study abroad. To ensure proper credit transfer, especially if seeking to transfer credits directly from a university abroad without benefit of an American program, students should keep syllabi, course descriptions, and all written work. Students planning study at a university in Germany, Austria, or Switzerland should note major differences in academic calendar (Winter Semester October–February, Summer Session April–July) which may be shortened by the American sponsor university to accommodate U.S. academic calendars.

Junior Year Program in Salzburg, Austria

Students who have completed GERM 504 or equivalent may enroll for one or both semesters at the University of Salzburg through the New England Universities Consortium. UNH faculty contact person is Professor Ed Larkin, (603) 862-3549.

Summer Review Course in Rosenheim, Germany

Conducted in early summer in Rosenheim, Germany, this course offers an intensive, three-week review of the basic structures and vocabulary of the German language. Particular emphasis is placed on speaking German in everyday situations. The course is open to students of any major who have successfully completed one year of college German at the elementary level (GERM 401-402) or its equivalent. Contact Professor Ed Larkin, (603) 862-3549 or CIE, (603) 862-2398, e-mail study.abroad@unh.edu.

Intensive Language Courses through the Goethe Institut

Students needing to advance rapidly in proficiency beginning at any level and at any time of year may enroll at a Goethe Institut center in Germany for courses ranging from eight to 16 weeks and receive UNH equivalent credit depending on level of exam passed upon completion of course. UNH faculty contact person is Professor Nancy Lukens, (603) 862-3450 or CIE, (603) 862-2398, e-mail study.abroad@unh.edu.

German Internship

Students who have completed GERM 504 or equivalent may apply for an unpaid 4–8 credit internship placement in a German-speaking firm or organization. The internship does not alone fulfill the study abroad requirement for the major, but may count toward the minor and may be coupled with academic course work through UNH or any study abroad program to fulfill the major study abroad requirement. The faculty contact person is Professor Nancy Lukens, (603) 862-3450.

Guatemala

Discovery Guatemala-Archaeology Semester Abroad

The semester abroad program in Guatemala provides a unique opportunity for advanced undergraduate students to experience Latin American culture while taking part in an ongoing archaeological research project. The main objective of the program is to provide students with an unparalleled experience in Maya archaeology in preparation for further research excellence and graduate careers.

Students spend the first four weeks of the program in Antigua, Guatemala's former colonial capital, nestled in a picturesque valley in the volcanic highlands. While in Antigua students will become immersed in Guatemalan language and culture.

Weekend excursions have been planned to acquire students with the great environmental and cultural richness of the host country. Students continue their Intensive Spanish study for the eleven weeks spent at the field site at San Bartolo. The San Bartolo field camp is located in an uninhabited region of tropical forest, 1 km distance from the archaeological site of San Bartolo. Archaeological Field Methods will be introduced through a series of individual one-week supervised internships with various members of the research team. For more information, contact William Saturno, (603) 862-2518 or Stephen Reyna, (603) 862-1842.

Hungary

Justice Studies Program in Budapest

The UNH Budapest Program in Justice Studies is designed to introduce students interested in the field to a broader appreciation of the cross-cultural perspective. Each fall, fifteen UNH students spend the semester in residence at the Corvinus University of Budapest in Hungary. Hungary offers students an opportunity to witness first hand the evolution of a criminal justice system within a context of significant cultural, political, economic, and social change. Situated along the Danube in one of central Europe's oldest cities, Corvinus offers a unique educational experience to students interested in the study of criminology, law and society, and the administration of justice. Under the supervision of a UNH faculty member also in residence, students carry a four course load, two of which are taught by the UNH faculty member. All courses are taught in English.

Eligible students must hold sophomore standing, have completed either SOC 515 or POLT 507, and one other course in the Justice Studies curriculum, and have a minimum cumulative grade point average of 2.50. Participating students will meet several times during the spring semester prior to the study abroad semester to prepare for the program. Interested students should contact the Budapest Program in the Justice Studies Office at (603) 862-1716.

Engineering and Physical Sciences Exchange Program in Budapest

The College of Engineering and Physical Sciences has arranged an opportunity for its students to spend the fall semester of their junior year at the Budapest University of Technology and Economics (BUTE) in Budapest, Hungary. Courses at BUTE are taught in English and receive prior approval

for degree credit. Students studying at Budapest, therefore, can graduate on schedule at UNH. A general education course on the language, geography, and culture of Hungary, taken at BUTE, is strongly suggested. The foreign student office at BUTE will appoint a Hungarian adviser for each student and will assist in obtaining housing either in dormitories, or in apartments. Further information is available from the college's educational assistant and the college's academic counselor, Donna Verschueren; or Marina Markot, coordinator of student programs, Center for International Education, Hood House, or Professor Andrzej Rucinski, Foreign Exchange Program Coordinator, (603) 862-1381. For more information, visit the program's Web site at www.ceps.unh.edu/academics/budapest/.

WSBE in Budapest

The Whittemore School of Business and Economics has partnered with the Corvinus University of Budapest (formerly Budapest University of Economics Sciences and Public Administration) to offer students a unique opportunity to live and study in beautiful Budapest, Hungary. This partnership allows WSBE students to take courses at CUB in the fall semester that directly transfers into the core of the Business Administration or Economics degrees and into most business options. This ensures that students can study abroad and graduate on time. Moreover, Budapest is developing into a commercial and financial center for many U.S. companies. Its importance for the U.S. economy is growing rapidly.

Students travel to Budapest in the last week of August. A WSBE faculty member meets students at the airport and sets them up in apartments in the city that are close to the University. The school works to make the transition to life in a foreign culture as simple and easy as possible. Additionally, in the future a WSBE faculty member will be teaching at the CUB during the study abroad semester.

India

Living Routes Study Abroad in Ecovillages-India: Sustainability in Practice at Auroville

Available to students in all majors, the India Sustainability in Practice Semester is an intensive immersion program in community and sustainable development. Students create a learning community within the living community of Auroville, an international Ecovillage along the tropical coast of

southern India dedicated to promoting human unity. Through engagement with a holistic approach to world issues that encompasses inner, cultural, and outer processes, students broaden and deepen their understanding of sustainability and ecology. Academic and field-based learning in habitat restoration, local organic food production, teaching in village schools, working with village action groups, and more. Students visit sites including Periyar Wildlife Sanctuary and Mitraniketan, a Gandhian community in Kerala. They engage in a 40-hour wilderness solo process of self-inquiry and reflection, and overnight at Sri Ramanamaharshi's ashram to climb Arunchala Mountain, the earthly home of the Hindu god Shiva. Fall and spring semesters. Contact Dr. Daniel Greenberg, (888) 515-7333.

Italy

UNH-in-Italy in Ascoli Piceno

Students may participate in the UNH-in-Italy Program in the medieval city of Ascoli Piceno, for a semester, a year, or a four-week summer session (see ITAL 685-686).

Academic Year Program. Students live either with Italian families or in apartments in the heart of the city and take UNH courses, taught in English, by UNH faculty. Students with advanced language skills may take courses taught in Italian. Internships are possible. There is no language prerequisite. Students must have a cumulative grade-point average of at least 2.50 and at least sophomore standing. For further information, contact Piero Garofalo, Department of Languages, Literatures, and Cultures, Murkland Hall, (603) 862-3769.

Summer Program. The summer program is a 4-week, 4-credit workshop in painting. Students live in apartments in the historic center of the city. Field trips to such locations as Venice, Rome, Bologna, Perugia, Urbino, Florence, and Assisi are included. For further information contact Grant Drumheller, Department of Art and Art History, Paul Creative Arts Center, (603) 862-1351

Japan

Kansai Gaidai University, Osaka

Students may spend one or two semesters at Kansai Gaidai University in Osaka, Japan. Program participants study the Japanese language, business, politics, literature, fine arts, and other courses. Eligibility requirements include a 3.00 grade-point average

and sophomore, junior, or senior standing. Contact the Center for International Education, Hood House, (603) 862-2398 or e-mail study.abroad@unh.edu.

Kanto Gakuin University, Yokobama

Students may spend the fall semester at Kanto Gakuin University. Program participants study Japanese language, literature, and culture. Contact the Center for International Education, Hood House, (603) 862-2398 or study.abroad@unh.edu.

Mexico

Puebla Program

A six-week summer program in Puebla, Mexico open to all students who are interested in taking summer courses at the University of Las Américas. Students must have a cumulative grade point average of 2.50. Credit for courses completed successfully will be transferred to UNH. For more information, contact Professor Lina Lee, Department of Languages, Literatures and Cultures, Murkland Hall, (603) 862-3123, or go to www.unh.edu/spanish/mexico.htm.

The Netherlands

Program at the Hague School of European Studies

The Center for International Education administers a semester abroad at the Hague School of European Studies in The Netherlands. All classes are in English. This program is available to sophomores, juniors, and seniors. The Netherlands provides easy access to all of Western Europe and is a wonderful and easy country in which to live and travel. The curriculum at the institute offers a rich international perspective to students. Interested students should contact the Center for International Education, Hood House, (603) 862-2398 or e-mail study.abroad@unh.edu.

Utrecht University

The Center for International Education administers an exchange program with Utrecht University, open to undergraduate and graduate students in all fields. Utrecht University is one of the top research universities in Europe, with the largest undergraduate population and the largest research budget in the Netherlands. The size, status, and international population of the university ensure that courses in all areas of study are offered in English. This is an especially good exchange for students wanting to combine a study abroad option with work in their majors.

Utrecht University has strengths in the sciences, especially in health care, the biological sciences, and physics. The veterinary program is the only one in Europe accredited in North America. The School of Economics offers programs in international business, marketing, and finance. The School of Law, open to qualified undergraduates, specializes in international law, comparative citizenship and immigration law, and comparative constitutional studies. In the humanities, advanced undergraduates and graduate students at all levels will find especially good opportunities in Atlantic History, linguistics, early modern studies, anthropology, international relations, women's studies, museum studies, art, European cultural studies, studies in race, immigration, ethnicity, citizenship, justice studies, and American studies. Utrecht University also offers Dutch as a second language, from conversational to intensive and professional, for international students.

Located in an especially lovely section of central Holland, Utrecht is the fourth largest city in the Netherlands. It has a classically old-Dutch city center with seventeenth-century buildings, a medieval church, several high-quality museums and terraced canals that encircle the old city. A university town since the medieval period, Utrecht has long enjoyed a vibrant student culture. Utrecht is easily navigable by foot, bicycle, and bus, and, as the center of the Dutch rail system, enjoys easy access to other cities in the Netherlands and Europe (Amsterdam is 35 minutes away; Paris three hours; London a day trip by plane). Interested students should contact the Center for International Education, Hood House, (603) 862-2398.

New Zealand

UNH-EcoQuest, New Zealand

In partnership with the UNH Department of Natural Resources, the EcoQuest Education Foundation offers an intensive program of applied field studies in ecology, resource management, and environmental policy. New Zealand offers an ideal context for multidisciplinary, field-oriented studies, with its rich cultural traditions, diverse ecosystems, expansive natural areas, and history of innovative approaches to resource management. EcoQuest students engage hands-on, in New Zealand's restoration ecology and sustainable resource management initiatives. Semester participants have the opportunity to carry out directed research projects while working closely with a faculty mentor and in association with New Zealand research

partners. The rural seaside campus is located about an hour's drive southeast of Auckland. Students travel throughout New Zealand's North and South Islands to learn more about the unique ecosystems and local culture.

Students may choose from a four-course, 15-week fall or spring term for 16 credit hours, or from a two-course, five-week, summer session for 8 credit hours. The UNH-EcoQuest Academic program coordinator is Dr. Kimberly Babbitt. Contact Donna Dowal, the UNH-EcoQuest director of admissions, (603) 862-2036.

Puerto Rico

University of Puerto Rico at Mayaguez

Students may spend one or two semesters at the University of Puerto Rico (UPR) at Mayaguez, the second largest of the three major campuses in the UPR system. While having the opportunity to learn in a Latin American environment, participants maintain their status as UNH students, pay UNH tuition, and will be able to graduate from UNH on schedule. The exchange is open to students and faculty members from all UNH majors. Since 80 percent of all courses at UPR are taught in Spanish, participants must be proficient in Spanish. Students must contact Paula DiNardo, National Student Exchange Office, Hood House, (603) 862-3485.

Scotland

Heriot-Watt University Exchange Program

College of Engineering and Physical Sciences students are eligible to participate in a spring semester exchange with Heriot-Watt University in Edinburgh, Scotland. The current program is designed for civil and environmental engineering majors. For more information, contact Ray Cook at (603) 862-1411, or e-mail ray.cook@unh.edu.

Spain

Granada Program

The Granada Program is administered jointly by the Spanish programs of the Universities of New Hampshire, and Connecticut. Students may spend one or two semesters in a program designed for those who have completed SPAN 631 or its equivalent, have a B average in Spanish and a cumulative grade-point average of 2.50, and have at least sophomore status. Courses taught by professors from the University of Granada fulfill requirements for the Spanish major and minor and general education require-

ments in humanities areas. Deadlines for fall applicants is March 1; for spring applicants, October 1. For further information, contact the Spanish Program, Murkland Hall.

Other Programs

Reserve Officer Training Corps Programs

(For course descriptions, go to www.undergradcat.unh.edu.)

The Army and Air Force offer Reserve Officer Training Corps (ROTC) programs leading to a commission as a second lieutenant in their respective services. Both programs are open to men and women. Students in either ROTC program may pursue any University curriculum that leads to a baccalaureate or higher degree.

Two- and four-year programs are available. The four-year program is open to freshmen, sophomores, and transfer students who began ROTC at another institution. In addition to on-campus ROTC course requirements, students must attend an officer preparatory training session for a part of one summer.

ROTC is open to students pursuing a baccalaureate degree who have a minimum of two academic years or more remaining within their degree program. Entering freshmen may preregister for MILT 413 (AROTC) or AERO 415 (AFROTC). Sophomores desiring to enter ROTC should check with either the Army or Air Force enrollment advisers located in Zais Hall.

Two-year ROTC programs are open to students who have two academic years of study remaining at the University. Applicants for the two-year program must attend a six-week training session during the summer immediately before their entry into ROTC.

ROTC scholarships are offered on a competitive basis by both the Army and Air Force. Entering freshmen may compete for four-year scholarships during the last year of high school. Additionally, incoming students with either a four-year or three-year ROTC scholarship may receive a room and board grant for the entire time they are on an ROTC scholarship. Students in a four-year ROTC program and two-year program applicants compete for scholarships covering their remaining academic years. Scholarships pay for tuition, mandatory University fees, and required textbooks for all courses. Limits may be placed on these scholarships dependent upon the type and amount of expenses incurred. In addition,

all scholarship recipients receive a tax-free monthly subsistence allowance. Nonscholarship students in the last two years of the ROTC program also receive the tax-free monthly subsistence allowance.

Both programs have administrative and medical requirements which must be met to qualify for a scholarship and commission.

More specific information about ROTC programs may be obtained by contacting the professor of military science (Army ROTC at (603) 862-1078) or the professor of aerospace studies (Air Force ROTC at (603) 862-1480).

COURSES

AERO 301	Leadership Laboratory	cr.
AERO 415	Foundations of the United States Air Force I	1 cr.
AERO 416	Foundations of the United States Air Force II	1 cr.
AERO 541	Evolution of United States Air Force Air and Space Power I	1 cr.
AERO 542	Evolution of United States Air Force Air and Space Power II	1 cr.
AERO 671	Air Force Leadership Studies I	4 cr.
AERO 672	Air Force Leadership Studies II	4 cr.
AERO 681	National Security Affairs I	4 cr.
AERO 682	National Security Affairs II	4 cr.
AERO 695	Officer Internship (Air Force)	4 cr.
MILT 401	Leadership Laboratory I	cr.
MILT 402	Leadership Laboratory II	cr.
MILT 413	Introduction to ROTC	1 cr.
MILT 414	Introduction to ROTC II	1 cr.
MILT 501	Self/Team Development I	2 cr.
MILT 502	Individual/Team Military Tactics	2 cr.
MILT 550	Camp Challenge	4 cr.
MILT 601	Leading Small Organizations I	2 cr.
MILT 602	Leading Small Organizations II	2 cr.
MILT 611	Seminar on Leadership and Management I	2 cr.
MILT 612	Transition to Lieutenant	2 cr.
MILT 695	Officer Internship	1 to 4 cr.