

**For each elective session rank your priorities from 1 to 4 (1= highest priority 4= lowest priority):**

**Wednesday, August 19, 2009**

*Elective Sessions*

- \_\_\_ Avian Research Techniques
- \_\_\_ Forestry Basics
- \_\_\_ Radio Telemetry
- \_\_\_ Insect Sampling Techniques

**Thursday, August 20, 2009**

*Elective Sessions*

- \_\_\_ Stream Characterization and Hydrologic Monitoring
- \_\_\_ Mammal Research Techniques
- \_\_\_ Forest Ecology
- \_\_\_ Nature Photography

*Elective Sessions*

- \_\_\_ Groundwater Monitoring
- \_\_\_ Boating Skills
- \_\_\_ Amphibian/Reptile Sampling Methods
- \_\_\_ Woodland Herbs and Edibles
- \_\_\_ Producing Maple Syrup

**Friday, August 21, 2009**

*Elective Sessions*

- \_\_\_ Aquatic Sampling Techniques
- \_\_\_ Tree and Shrub ID
- \_\_\_ Recognizing Wildlife Sign
- \_\_\_ Soils and Soil Sampling



Cornell University  
108 Fernow Hall  
Ithaca, NY 14853

# Environmental Career Skills Program

August 18 – 21, 2009



Cornell's Arnot Teaching and Research Forest



**Develop essential skills, gain hands-on experience, and get a head start in techniques that are critical to your career**

- Modern field sampling techniques like telemetry, digital acoustical analysis, and remote sensing
- Mapping and orienteering
- Wildlife and plant identification and natural history
- Forest ecosystem assessment techniques

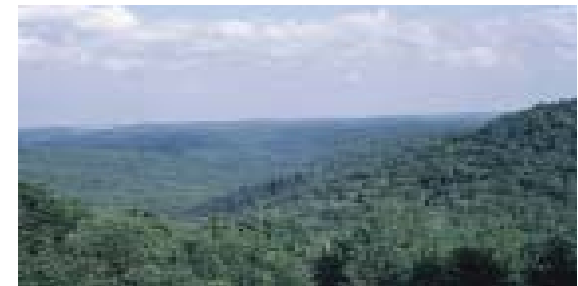
**What is the Environmental Career Skills Program?**

Environmental Career Skills Program is an intensive, hands-on field course. Students and future leaders in environmental or natural resource professions are instructed and trained in essential environmental tools and modern field techniques by some of Cornell's leading scientists.



**Program Description**

Environmental Career Skills is a 3-day immersion course hosted by Cornell's Department of Natural Resources. The course takes place from August 18 to August 21 at the Arnot Teaching and Research Forest, a semi-isolated, wooded setting with woodland flora and fauna, streams, ponds, and 100-year-old forest stands. Located 15 miles southwest of Ithaca, NY, the Arnot provides ample opportunity to study the methods and principles of conservation ecology, forestry, and stream ecology, and to learn techniques for studying amphibians, reptiles, birds and mammals.



## Who Should Attend?

This course is designed for students interested in gaining hands-on training in modern field sampling methods. Students in Natural Resources, Science of Natural and Environmental Systems, Environmental Undecided, Ecology and Evolutionary Biology, Biology, Biological and Environmental Engineering, Animal Sciences, Landscape Architecture, and City and Regional Planning, as well as students in other fields, will benefit from this intensive field course. Incoming freshmen, as well as upperclassmen, will have the opportunity to connect with peers and faculty who share their interests, and develop a "sense of community" prior to the start of classes.

## Tentative Agenda

### Tuesday, August 18, 2009

Arrival and Cabin Selection

Welcome and Program Orientation

Making Connections

Anabat Demonstration - Learn about this modern tool that allows scientists to hear and differentiate among bat calls

### Wednesday, August 19, 2009

Finding Your Way - Learn map-reading and orienteering skills that are critical when working anywhere in the outdoors. These skills include pacing, compass-reading, and applied map-reading

Elective Sessions

- Avian Research Techniques
- Forestry Basics
- Radio Telemetry
- Insect Sampling Techniques

Woodland Olympiad - Hands-on instruction and tests of your outdoor skills in the context

*"I can positively say that I am currently more prepared for my studies at Cornell and more excited."*

of friendly group competition that includes events such as axe-throwing, archery, lure casting, etc.

Owl Walk



### Thursday, August 20, 2009

Identifying Organisms - Learn how to identify many of the organisms in our area, use dichotomous keys, and recognize common tree species

Global Positioning Systems

Master basic GPS skills and learn how to map habitats

Elective Sessions

- Stream Characterization and Hydrologic Monitoring
- Mammal Research Techniques
- Forest Ecology
- Nature Photography

Elective Sessions

- Groundwater Monitoring
- Boating Skills
- Amphibian and Reptile Sampling Methods
- Woodland Herbs and Edibles
- Producing Maple Syrup

*"Besides just having fun I've met awesome people all of whom are interested in the same things as me."*

Darwinian Basics: Safety in Your Environment

- Learn key skills that will keep you safe in the field. Identify poisonous plants and fungi; learn how to protect yourself from diseases like rabies, Lyme disease and West Nile virus; learn what to do and what not to do when encountering bears, bees, or poisonous snakes; and study chainsaw, gun and boat safety

### Friday, August 21, 2009

Community and Habitat Sampling Techniques

- Learn to use important sampling methods like quadrats, line transects, point-center, and stratified random vs. uniform sampling.

Elective Sessions

- Aquatic Sampling Techniques
- Tree and Shrub ID
- Recognizing Wildlife Sign
- Soils and Soil Sampling

Depart for campus - 1:30



*"This trip was incredible. The Environmental Career Skills program has given me a very good base with which to build any career involving the environment."*

## Registration/Payment Form

The cost of the course is \$450/student and includes all meals, bunk-style cabin lodging at the Arnot Forest, instruction, and educational materials. A \$100 non-refundable deposit is required to pre-register. Payment in full must be made by August 1<sup>st</sup>, 2009.

Please complete both sides of registration form. You will receive registration confirmation and a packet with detailed information.

Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Email: \_\_\_\_\_

Phone: (\_\_\_\_) \_\_\_\_\_

Emergency contact name: \_\_\_\_\_

Phone: (\_\_\_\_) \_\_\_\_\_

T-shirt Size: \_\_\_S \_\_\_M \_\_\_L \_\_\_XL \_\_\_XXL

Dietary restrictions, food allergies  
\_\_\_\_\_  
\_\_\_\_\_

Return form with check made payable Cornell University to: Diana Bryant, ECS Program, 108 Fernow Hall, Ithaca, NY 14853. Registration info. contact Diana at: 607-255-2115 or dlt5@cornell.edu

Or register on line, with payment in full by credit card at: <http://www.dnr.cornell.edu/arnot/acep/ecsp.htm>, payment includes, \$100 non-refundable deposit.

Program questions? Contact Kristi Sullivan, Cornell University, Department of Natural Resources, 109 Fernow Hall, Ithaca, NY 14853. Phone: 607-255-5508 Email: kls20@cornell.edu

Visit our web site at:

[www.arnotconservation.info](http://www.arnotconservation.info)

*"This course really jump started my career."*