

Environmental Conservation

2012 Department at a Glance

Points of Pride

- The department has ranked in the top 10 for UMass Amherst student satisfaction for 4 years.
- The Building and Construction Technology Program was awarded membership in the Associated Schools of Construction (ASC), the international association for academic and industry professionals.
- Brian Kane received the 2011 International Society of Arboriculture's Early Career Scientist Award
- David Kittredge was appointed by Governor Deval Patrick to the Massachusetts Commission on Financing Forest Conservation.
- Graduate students Charles Eiseman and Noah Charney won the National Outdoor Book Award for best nature guidebook of 2010.
- Departmental programs Wildlife Sciences ranked 4th, Forest Resources ranked 7th, and Fisheries Science ranked 10th nationally in the *Chronicle of Higher Education's* latest Academic Analytics Faculty-Productivity Index.

Education

- The curriculum integrates field and classroom study and applied and theoretical research.
- The academic emphasis focuses on the natural complexity of ecosystems and the interdisciplinary nature of their conservation.
- There are 3 undergraduate degree programs that focus on the integration of built and natural environments: Building & Construction Technology; Environmental Science; and Natural Resources Conservation, which offers program concentrations in Environmental Conservation, Fisheries Ecology & Conservation, Forest Ecology & Conservation, Urban Forestry & Arboriculture, Water Resources, and Wildlife Ecology & Conservation.
- The graduate degree program in Environmental Conservation offers concentrations in the following areas: Building Systems; Environmental Policy & Human Dimensions; Water, Forest Resources & Arboriculture; Wetlands & Watersheds; and Wildlife Fish & Conservation Biology.
- Graduate student fieldwork spans the local-global continuum extending from Western Massachusetts to Mongolia.

Leadership & Outreach

- Charles Schweik leads a Mass. Department of Education initiative with the Gateway Regional School District training teachers in Open Source GIS.
- Faculty members serve on numerous national review panels, committees, and working groups.
- Andy Danylchuk, James Webb and David Damery completed groundbreaking work shops in sustainable rural technologies in Kampala, Uganda.
- Outreach Programs include:
 - USDA Forest Service Urban Natural Resources Institute
 - Landscape, Nursery, and Urban Forestry Diagnostic Laboratory
 - Natural Resources and Environmental Conservation Extension Program
 - Large Pelagics Research Laboratory fisheries field station
 - U.S. Geological Survey Cooperative Unit



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By the Numbers FY11

Faculty	30
Research Fellows	10
Postdoctoral Fellows	13
Undergraduate Majors	660
Graduate Students	120
Active Research Awards	\$9M

Research Facilities

- Building Materials Testing Lab
- Green Building and Building Energy Lab
- Large Pelagics Research Center Gloucester Field Station
- Conservation Genetics Lab
- Aquatic Ecology Lab
- GIS Lab
- Human Dimensions Lab
- Plant Diagnostic Lab
- Silviculture Lab
- Suburban Ecology Lab
- Urban Forestry Diagnostic Lab
- Forest Properties (2000+ acres)

Affiliated Research Centers

- Conte Anadromous Fish Laboratory
- Cooperative for Marine Education and Research
- Family Forest Research Center
- Harvard Forest
- Massachusetts Cooperative Fish and Wildlife Research Unit
- New England Research Institute for Moose and Forest Dynamics
- USDA Forest Service
 - Northeast Center for Urban and Community Forestry
 - Ozone Biomonitoring Program
 - Wildlife Habitat Research Unit
- Watershed Education and Technology Partnership