It’s Your Nature to Explore
Come Experience SIU Forestry
Southern Illinois University - Forestry:
An Education for Fulfilling Careers in Sustainability and Conservation of Natural Resources

SIU Forestry

- A Quality Program
- An Excellent Reputation
- Nationally Accredited by the Society of American Foresters
- Nationally Ranked (of 47 accredited programs, most recent 5 years data)
  - 4th in enrollment
  - 2nd in Bachelor of Science degrees in Forestry
SIU Forestry Alumni: Varied Natural Resource-Related Jobs

Amanda, Forestry Technician, US Forest Service, Gila National Forest, New Mexico

Ed, Director, Hartman Reserve Nature Center Cedar Falls, Iowa

Christy, Realty Specialist, USFS, Superior National Forest,

Jeremy, National Park Service, Winema National Forest, Oregon

Amanda, Forestry Technician, US Forest Service, Gila National Forest, New Mexico
SIU Forestry Alumni:
Varied Natural Resource-Related Jobs

Jake, Conservation Reserve Enhancement Program Specialist, Association of Illinois Soil & Water Conservation Districts

Jacob, Ranger, Forest Preserves of Cook County, Illinois

Jacqueline, Project Forester, South Carolina Forestry Commission

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Jacqueline, Project Forester, South Carolina Forestry Commission
SIU Forestry Alumni:
Varied Natural Resource-Related Jobs

Laura, Integrated Resource Technician, US Forest Service, Land Between the Lakes, National Recreation Area, KY & TN

James, Wildland Firefighter, USFS, Klamath National Forest, California

John, Ranger Police Officer, Conservation Law Enforcement, DuPage County Forest Preserve District, Illinois

Matt, US Forest Service

Laura, Integrated Resource Technician, US Forest Service, Land Between the Lakes, National Recreation Area, KY & TN

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John, Ranger Police Officer, Conservation Law Enforcement, DuPage County Forest Preserve District, Illinois

Matt, US Forest Service
SIU Forestry Alumni:
Varied Natural Resource-Related Jobs

Kira, Wolf Researcher, Yellowstone National Park

Heidi, Statewide Hunting Education Coordinator, Texas

Wade, District Forester, Illinois Department of Natural Resources, Marion County, IL

Jason, Supervisory Forester, USFS, Land Between the Lakes National Recreation Area

Tranquilized wolf
SIU Forestry Alumni:
Varied Natural Resource-Related Jobs

Lucy and Joseph
Grand Canyon National Park

Christine, Resource Specialist, Soil and Water Conservation District, Indiana

Tom, Hall Woodprocessing Co., Montana

John, Stanislaus National Forest, California
Steve, Regional Fuels Planner, San Bernardino National Forest, California

Kyle and Bill, Land Between the Lakes National Recreation Area, KY & TN

Amy, Joshua Tree National Park, California

Lionel, Minnesota Valley National Wildlife Refuge, Minnesota

Steve, Regional Fuels Planner, San Bernardino National Forest, California

SIU Forestry Alumni: Varied Natural Resource-Related Jobs
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Varied Natural Resource-Related Jobs

Chad, Hydrologist, Southern Research Station
US Forest Service, North Carolina

Kristen, Lincoln Home National Historic Site, Illinois

Marty, Wildland Firefighter, Center for Environmental Management of Military Lands, Fort Campbell, KY

Jamie, Interpretive Ranger, Glacier National Park, Montana
Lisa, Isle Royale National Park, Michigan

Jennifer, Jamie and Chuck (all alumni), Mammoth Cave National Park, Kentucky

Jeremy, Forest Glen Preserve, Danville, IL

SIU Forestry Alumni: Varied Natural Resource-Related Jobs
Career Sample of SIU Forestry Alumni

- Deputy Wildlife Refuge Manager
- Hydrologist
- Forest Management Consultant
- Supervisory Wildlife Biologist
- Regional Forester
- Urban Forester
- Assistant (fire) Engine Operator
- Chief of Resource Management Division
- Fire Crew Leader
- Conservation Officer/Game Warden
- Environmental Scientist
- Community College Teacher
- Utility Forester
- University Professor
- Park Ranger
- District Forester
- Silviculturalist
- Deputy Director of US Bureau of Land Management
- Interpretation Resource Coordinator
- State Forester US NRCS
- Park Manager
- Research Social Scientist
- Hunter Education Specialist
- Director of Business Administration Development
- Park District Ranger
- Chief of Resource Management and Education
- National Recruiter and Trainer
- G.I.S. Specialist
- Resource Forester
- Ranger Police Officer
- Vegetation/Habitat Manager
- Research Ecologist
- Soil Conservationist
- Director, Nature Center
- Supervisory Forester
Some Employers of Alumni

- US Forest Service and other USDA agencies
- National Park Service
- US Fish and Wildlife Service
- State Conservation Agencies IL, MO, WI, IN, UT, CA, PA, MI, MN, FL, SC, TX, NC, NV, ID, OR, WA etc.
- US Dept. of the Interior Bureau of Land Management
- US Army Corps of Engineers
- US Dept. of Defense Military Installation Land Management
- Community Forestry: DuPage County Forest Preserve District, McHenry, Vermillion, and Linn County Conservation Dist. Champaign and Collinsville Park Districts
- Bureau of Indian Affairs
- Industry and Private - land management, timber, tourist, landscape, restoration companies, consulting forestry, contractors including: Davey Resource Group, Marion Plywood Corp., Quality Forest Mgt, Illinois Forest Products, Iowa Oak, Long Forestry Consultation,
- Conservation Organizations – Nature Conservancy, Ducks Unlimited, Pheasants Forever, National Great Rivers Research and Education Center, The Parklands Foundation, National Wild Turkey Federation, Prairie Rivers
- Land investment/ acquisitions and estate law planning firms
- Themselves as consultants
- Universities, Community Colleges, others
Getting into the field of Forestry and Conservation Science, According to the US Bureau of Labor Statistics:

- Conservation Scientists and Foresters held 36,500 jobs in 2014. It is estimated there will be a 7% increase in employment between 2014-2024.

- Conservation Scientists and Foresters manage the overall land quality of forests, parks, rangelands, and other natural resources. They work for state, local, or federal governments, on privately owned lands, or in social advocacy organizations.


- Other related positions in natural resources management and conservation have variable earning potential. Your earning potential increases as you gain experience and knowledge.
SIU Forestry
Degree Programs

• B.S. Forestry
  • Enrollment ~185
  • Nationally Accredited by the Society of American Foresters

Specializations
• Forest Resource Management
• Forest Hydrology
• Forest Recreation and Park Management
• Urban Forestry
• Wildlife Habitat Management and Conservation

• M.S. Forestry
  • Enrollment ~30
  • 10 faculty, 2 staff, 2 research technicians
Forest Resources Management

- Manage forest resources on public and private lands
- Develop strong outdoor/field knowledge and conservation skills
- Habitat and fire management, ecosystem restoration, forestry consulting
Forest Hydrology

Monitoring, planning, restoration, and maintenance of community and regional watersheds

• Courses include:
  • Watershed Management
  • Forest Hydrology
  • Forest Soils
  • Civil Engineering, Geology, Physics, Plant Ecology, & Zoology

• Earn credentials for Federal Hydrologist employment
• National exposure for our students with agency jobs after graduation
Forest Recreation and Park Management

• Outdoor recreation

• Environmental and cultural interpretation of natural resources

• Public communication

• Courses align with National Recreation and Park Association requirements

• Summer experience - public and private park management

• Outstanding employment across the nation!
Urban Forestry

- Sustaining urban forest resources and ecosystems
- Community forest, greenspace, and tree management
- Tree care and maintenance
- Landscape management and design
- Small business management
Wildlife Habitat Management and Conservation

- Habitat conservation and restoration for wildlife
- Management of wildlife populations
- Conservation police officer (CPO)
- Summer experiences – wildlife technician working hands-on with wildlife, CPO training
- Many opportunities for future employment in the wildlife conservation field!
14 outdoor lab courses offered including “Summer Camp”

- Learn from professionals on the job
- Experience nature
- Hands-on work
Outdoor Lab Courses: Classrooms with a View
Outdoor Lab Courses:
Classrooms with a View

FOR 100 – Introduction to Forestry
Field Experience: Park and Wildlands Management Camp

- Assessing Sustainability
- Monitoring Impacts
- Making Management Judgments
- Assessing Management Issues
- Evaluating Interpretation
State champion cherrybark oak at Heron Pond State Natural Area

Forest Resources Camp, Current River

Forest Recreation and Park Management Camp, southern Illinois
International Experiences

• Study Abroad Courses
  • Ireland
  • Scotland
  • Panama

Trail restoration in Ireland.

Rainforest conservation studies in Panama.
Internships, Undergraduate Research, Training, and Student Work Opportunities

- Seasonal jobs and internships available with state and national parks and forests, natural resource agencies, and private companies
- SIU undergraduate assistantships, research projects, student work
  - Hands-on research with i2i, REACH and McNair
  - Participation at professional meetings
- Career training and certifications
  - Wildland Firefighter Type II cert.
  - Project Learning Tree
  - Project Wild
  - Project Wet
Extracurricular Activities - Develop Skills, Knowledge, Friendships While Having Fun

- Saluki Heritage Interpreters
- Society of American Foresters
- Forestry Club
- American Water Resources Association
- National Wild Turkey Federation Student Chapter and Many Other Registered Student Organizations
- Xi Sigma Pi, National Honorary Society
- Alpha Gamma Rho, Sigma Alpha
- AgBassadors
- Fire Dawgs
- Saluki Bassers
- Project Learning Tree
- Student Governance
- Resident Assistant
Club: Saluki Heritage Interpreters

The Homeplace - LBL, USFS Cultural Heritage Site

Crab Orchard Visitor Center Display

IDNR, Barkhausen Wetland Center
SIU Forestry Club at the Midwestern Conclave
Student Outreach and Service

- SIU hosts the annual FFA Illinois State Forestry Career Development Event
- Forestry Students Participate in Undergraduate Research Symposia
- Dr. Charles Ruffner leads the FireDawg’s that work with agency professionals and landowners on state, federal, and private lands for woodland restoration
Demonstration-Teaching Forests on SIU lands
The Forestry Department is in the Agriculture Building adjacent to Thompson Woods in the heart of SIU’s campus. It’s very near the Steagall Hall Living Learning Community on Campus Lake, a residence hall reserved for Forestry and other College of Agricultural Sciences students.
Steagall Hall, student housing, is on Campus Lake. It is a dedicated “Living Learning Community” reserved for students in our college. Apply early for a room.
In each of the last 3 years, SIU was classified in the top 2.5 % of the world’s 25,000 institutions of higher learning based on the quality of education, student training, the prestige of faculty and the quality of research (Center for World University Rankings).

In 2016, SIU earned the designation as a Tree Campus USA from the Arbor Day Foundation, recognizing the university’s commitment to effective urban forest management.

The university’s strong commitment to serving veterans and active-duty personnel is recognized by U.S. News and World Report, Military Times and Military Advanced Education magazines.

SIU earned national recognition for our commitment to sustainability and green initiatives three of the last four years as noted in the Princeton Review’s Guide to Green Colleges.
SIU is Ranked among the top 5% of all U.S. higher education institutions for research

- Forestry faculty are successful scientists who research issues and provide solutions relating to forest management, wildlife, ecology, wildfire, recreation, habitat management and restoration, water quality, and natural resource sustainability.

- Undergraduate and graduate students have opportunities to do research, earn assistantships, and learn in indoor and outdoor laboratories.

- Faculty research enhances student learning through discussions and applications of current research results, case studies, and hands-on experiences.
• Completed a comprehensive renovation and expansion in 2009.
• One of the premier research libraries in the country.
• >2.6 million volumes; 36,000 current periodicals and serials; and >3.6 million microform units
• Member of I-Share (the statewide automated library system)
• Individual and group study rooms, computer stations, vast electronic database resources, special collections
• Helpful and skilled staff
• More information see  http://lib.siu.edu/
There are several favorable alternate tuition rates for students in certain geographic and/or academic areas. This includes programs of Border States, Legacy, Out of State-Scholars, Southern Starts, and Veteran/Military. See [http://admissions.siu.edu/alternaterates/](http://admissions.siu.edu/alternaterates/)

Students from the Border States of Arkansas, Iowa, Indiana, Kentucky, Missouri, Tennessee and Wisconsin receive Illinois in-state tuition rates.

The SIUC Legacy Tuition Rate is for newly entering freshmen or transfer undergraduate students who have parents, stepparents or legal guardians who graduated from SIUC. These students* pay 80% of the current applicable in-state or out-of-state tuition, guaranteed for 4 years. See [http://siu.edu/legacy/](http://siu.edu/legacy/)

*Excludes professional schools and the physician assistant studies program.*
Considerable & diverse outdoor educational and recreational opportunities surrounds SIU within the natural beauty of southern Illinois.

Campus including Touch of Nature Environmental Center (3,100 acres) adjoins the Shawnee National Forest (280,000 acres) & the Crab Orchard National Wildlife Refuge (44,000 acres).

SIUC is within 10-45 minutes of Giant City (2,430 acres) & Ferne Clyffe (4,000 acres) State Parks, Trail of Tears State Forest, the River to River Trail & the Cache River Wetlands.

Landscapes vary from bottomlands to uplands with rolling hills, bluffs and rugged topography. There is designated wilderness to developed recreation.

Also nearby are a variety of lakes (~17,000 acres including Crab Orchard, Kinkaid, Devils Kitchen, Little Grassy, Lake of Egypt, Mermet, and Cedar), a multitude of ponds, and significant rivers including the Mississippi, Ohio, Cache and others.
Educational and Recreational Environment Surrounding SIU: example of
The Shawnee National Forest, USDA Forest Service

- At 280,000 acres - the single largest area of public land in Illinois.
- Seven Congressionally-designated Wilderness Areas (about 10% of the Forest)
- Six candidate Wild and Scenic Rivers
- Four National Natural Landmarks
- Four heritage resource sites on the Register of Historic Places
- 80 Natural Areas of which 10 are Research Natural Areas ecological value.
  - 56 ecological areas
  - 14 botanical areas
  - 3 geological areas
  - 7 zoological areas

Garden of the Gods, Camel Rock, featured by the US mint as one of the “America the Beautiful Quarters”
Veteran and Active Duty Friendly

- Victory Media, who publishes G.I. Jobs magazine, named SIUC a “Military Friendly® School” for 2016 for a 7th straight year.

- SIUC ranks nationally in the top 40 of its “Best for Vets: Colleges 2016” for 4-year universities according to Military Times. SIUC was awarded that distinction in each of the five years it has been published.

- Military Advanced Education & Transition magazine designated SIUC as one of the nation’s 2016 top military-friendly colleges and universities.
Our faculty and staff
Dr. Jon Schoonover
Professor of Physical Hydrology

Courses Taught
- Tree Identification
- Introduction to water resources
- Watershed management field lab
- Forest soils
- Forest soils field lab
- Freshwater angling and aquatic resources management
Research Interests:

Impacts of land use on water chemistry, hydrology, channel morphometry, and sediment transport.

Utility of giant cane, mitigation of fecal coliform contamination, and riparian zone management in agricultural systems.
Dr. Eric Holzmueller
Associate Professor of
Forest Management & Ecology

Courses taught:

- Forest Resource Management
- Forest Health
- Geographic Information Systems
- Resource Summer Camp
Dr. Eric Holzmueller
Associate Professor of Forest Management & Ecology

Research interests:
- Management of oak forests
- Ecological restoration
Dr. John Groninger —
Professor of Silviculture

Teaching
• Silviculture- art and science of producing and tending forests
• Regional silviculture- focuses beyond the Midwest
• Agroforestry- forestry in farm settings
• Urban forestry- managing trees in towns and cities
• Forest Resources Management Summer Field Camp

Research Interests
• Forest Restoration and reclamation
• Forest Stand Dynamics
• Intensive management
• Agriculture and Natural Resources Development to promote security
Dr. Charles Ruffner
Professor of Forestry

Courses and Interests:
• Fire in Wildland Management
• Forest Measurements
• Historical Ecology
• Disturbance Ecology
• Fire History
• International development
Dr. Clay Nielsen

Professor of Wildlife Ecology and Conservation

Courses and Teaching Interests
- Forest Management for Wildlife
- Natural Resources Inventory
- Wildlife-Habitat Relationships
- Tropical Ecology and Conservation

Jaguar study area in Sonora, Mexico

Climate change in Patagonia

Gray fox in Illinois

Midwest deer research
Dr. Clay Nielsen

Research Interests:
• Wildlife-habitat relationships
• Wildlife habitat and population management
• Human dimensions of wildlife
• International wildlife conservation

Searching for bird nests in CRP fields

Human-tiger conflict in India

Cougar habitat in the Midwest

Jaguars in Mexico and Panamà

Maned wolves in Paraguay
Dr. Kofi Akamani
Assistant Professor in Forest Recreation & Conservation Social Science

Research Interests
- Human dimensions of resource management
- Parks and recreation planning
- Community resilience
- Adaptive governance
- Ecosystem management
- Mixed methods research

Courses Taught
- Forest Policy
- Social Influences in Forestry
- Recreation Landuse Planning
- Sustainable Tourism
Dr. Logan Park
Associate Professor of Forest Recreation and Park Management
Dr. Logan Park

Research and Teaching Interests

• Protected area soundscape ecology
• Trail and campsite assessment, development, and environmental impact
• Computer simulation modeling
• Computer simulation in social research methods
Dr. Karl W.J. Williard
Professor of Forest Hydrology and Watershed Management

- **Courses Taught:**
  - FOR 430: Watershed Management
  - FOR 429: Watershed Management Field Lab
  - FOR 402: Forest Hydrology

- **Research Interests:** Nitrogen, phosphorus, and sediment attenuation in riparian buffer zones; impacts of forest road construction and harvesting on erosion and sedimentation; water quality impacts of invasive exotic plants.
Dr. Karl Williard’s Research and Course Activities

- Environmental Assessment and Mitigation Research at Fort Knox
- Forestry Best Management Practices
- Wilderness Trail Design in Field Camp
- Stream Channel Morphology
UCOWR objectives:

• Facilitate water-related education at all levels
• Promote research and technology transfer on relevant water resource issues
• Compile and disseminate information on water problems and solutions
• Foster informed water decisions at all levels of society

UCOWR is a national professional water organization governed by a Board of Directors, with daily operations based in the Department of Forestry at SIU Carbondale, Dr. Karl Williard, Executive Director.
Research Interests

• Natural Resource Economics
• Environmental Planning
• Sustainable Development
• Rainforest Conservation
Dr. Andrew Carver
Professor of Forestry

Courses

• Forest Resource Economics
• Advanced Forest Economics
• International Forest Resource Decision Making
• Senior Seminar
• Rainforest Conservation, Study Abroad
Office Staff

- Patti (on left) - office manager and student services coordinator
- Amy (center) - forestry student and office staff
- Laura (right) - accountant
Dr. Jim Zaczek
Professor of Forest Ecology &
Department Chair

Courses Taught:
• Ecology of North American Forests
• Forest Ecosystems
• Tree Physiology

Research Interests:
• Habitat restoration and rehabilitation
• Ecology of forests and giant cane (native US bamboo)
• Woody plant propagation
The mission of the Department of Forestry at SIU is to foster responsible stewardship of forest resources in Illinois, the Midwest, the Nation, and the world. In pursuit of this mission, the departmental faculty engage in a coordinated program of teaching, research, and service that is dedicated to developing and disseminating appropriate technology, practices, and information.
The Department of Forestry at Southern Illinois University offers extensive course and research opportunities for undergraduate and graduate study. The diverse backgrounds of the forestry faculty, together with our comprehensive curriculum, individual attention to students, excellent research facilities, and location, combine to make the forestry program one of the most fulfilling and exciting in the United States.
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On Track to Careers in Nature
Interested? For more information --

Contact:  Jim Zaczek
Phone: (618) 453-3341
Email: forestry@siu.edu

Or visit in person:
SIUC Department of Forestry
1205 Lincoln Drive
Room 184, Agriculture Bldg
Carbondale, Il 62901

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