



NC STATE

THINK AND DO
THE EXTRAORDINARY

Administrative Leadership Meeting

Randy Woodson
Chancellor

Tuesday, July 18, 2022

Upcoming ALMs

September 12

EAPED Updates

Titmus

November 7

Strategic Plan Report
Card

Titmus

Board of Trustees Update

- Four New Members
- Two Reappointments
- 2023-2024 Officers
 - Ed Weisiger, Jr. as Chair
 - Ed Stack as Vice Chair
 - Tim Humphrey as Secretary



Moving from RADAR to RED

The ERA Project Team will launch a new RED sponsored programs module the week of August 7. The new module along with the Sponsored Research Activity Reporting (SRAR) tool tracks, manages and reports on proposals and awards.

- The new module replaces RADAR – an NC State-developed data and reporting system.
- See <https://research.ncsu.edu/era/go-live-faq/> for more info.



Sustainability Update

A look at NC State's programs and progress

July 18, 2023

Sustainability Council

sustainability@ncsu.edu

ONE OF NC STATE'S CORE VALUES

Sustainability

in our commitment to wise stewardship of resources, prudent financial planning and environmentally responsible operations.



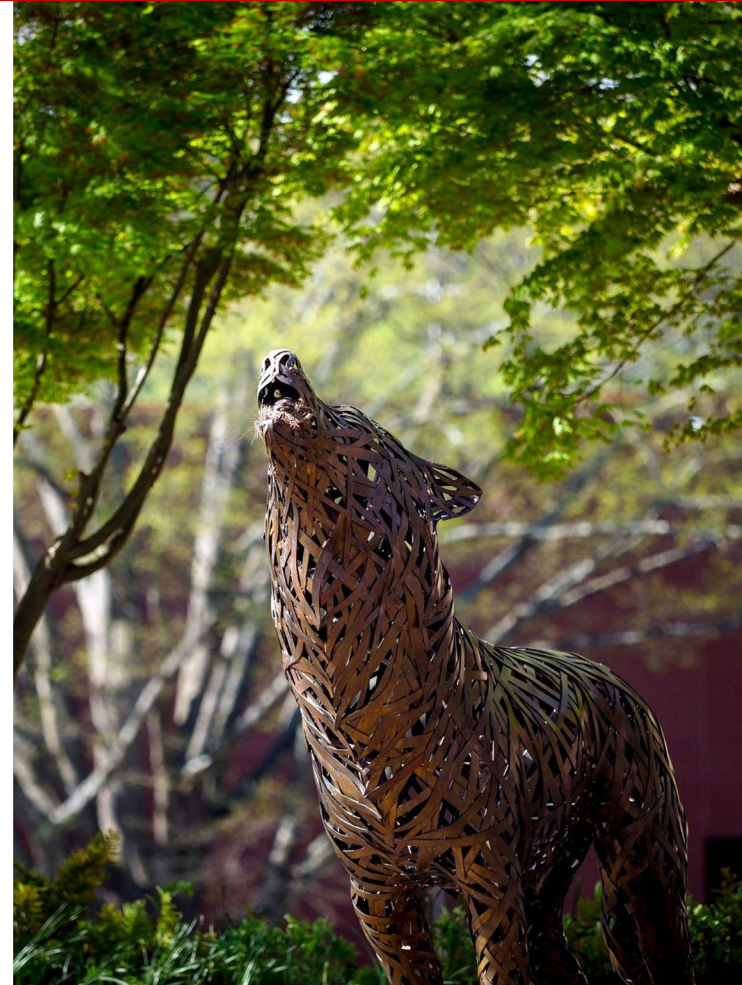
Gold Rating

in sustainability performance from the
Association for the Advancement of
Sustainability in Higher Education



#7 in the U.S. for sustainability impact (Times
Higher Education 2022 Impact Rankings)

#18 on the 2022 *Princeton Review's*
Top Green Colleges List



A COLLABORATIVE AND GROWING COMMITMENT



OUR IMPACT

The NC State community is equivalent to the 24th largest city in North Carolina.



Physical and
Environmental



Financial



Social

STUDENT LEADERSHIP GOAL

Engage students in initiatives that promote leadership and service in sustainability.



Students in the Stewards sustainability leadership program created this campus solar installation.

MORE CAMPUS-WIDE EXAMPLES OF STUDENT ENGAGEMENT



Sustainability Fund

Annual grant program created by a student fee with funding allocated by a student-led advisory board



B Corp Clinic

Engages students as consultants improving the environmental and social impact of businesses



EcoVillage

University Housing's living and learning community focused on sustainability



Social Innovation Fellows

Team-based learning experience for student entrepreneurs to consider social and environmental impact



Make-A-Thon

Annual weekend-long entrepreneurship contest focused on sustainability

Plus....

- KIETS Climate Leaders Program
- 39 sustainability-related student organizations
- 200+ sustainability-related events annually, such as Earth Month and Energy Week

Campus As A Classroom

Applied learning opportunities for students that advance campus sustainability

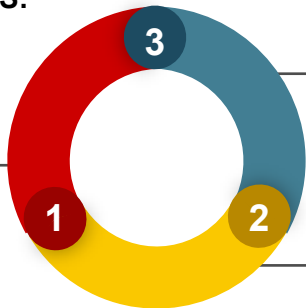


THREE PATHWAYS:

Internships

Project-based
internships with
faculty or staff

(54 in the
first 3 years)



Student-Led Projects

Projects initiated
by students

Courses

Projects connected
to a course

“Campus As A Classroom has been one of the best parts of my college experience.” - Student Intern

**OPERATIONS, PLANNING
AND DESIGN GOAL**

Model sustainability through efficient, innovative facilities and operations that educate the campus community and improve the quality of life.



NC State's Compost Facility and Research Cooperative can process up to 1,200 tons of organic waste annually

ON THE RALEIGH CAMPUS



Buildings

NC State has committed that all new construction and major renovations over 20,000 square feet are at minimum LEED Silver Certified – currently more than 1.9 million square feet of certified space.



Land

1,200 acres actively managed with 10,000+ trees and growing number of landscapes with native, pollinator-friendly, edible or drought-resistant plants.



Transportation

Miles of roads and paths, as well as Wolfline (with over 2 million boardings a year) and a growing number of EV charging stations on campus.



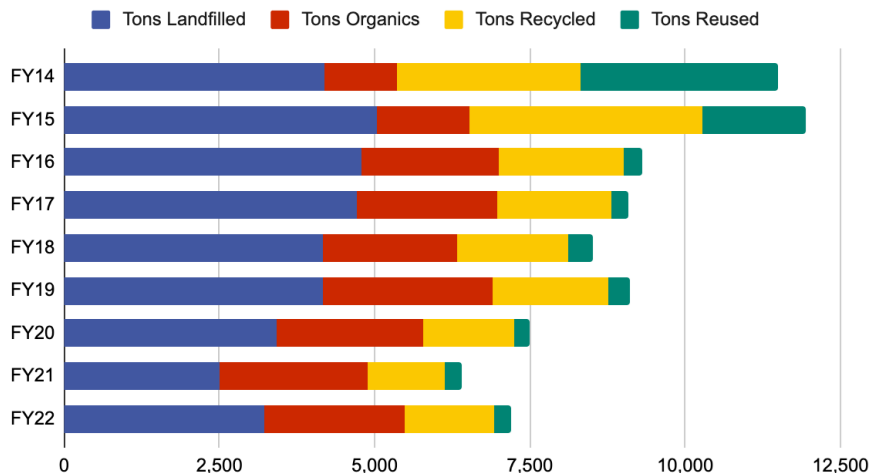
Infrastructure

Utility plants and underground assets, stormwater management, compost facility, and an agroecology farm that grows produce for dining.

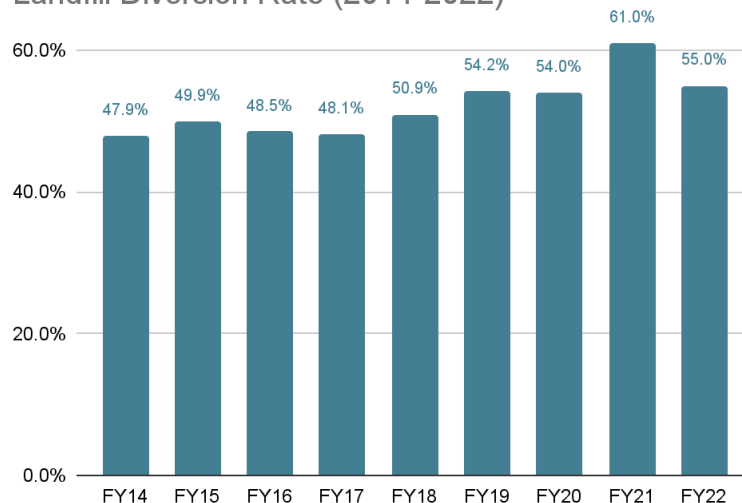
Landfill Diversion Rate Is At 55%

Current Goal is 70%

Tons Of Material On Raleigh Campus (2014-2022)



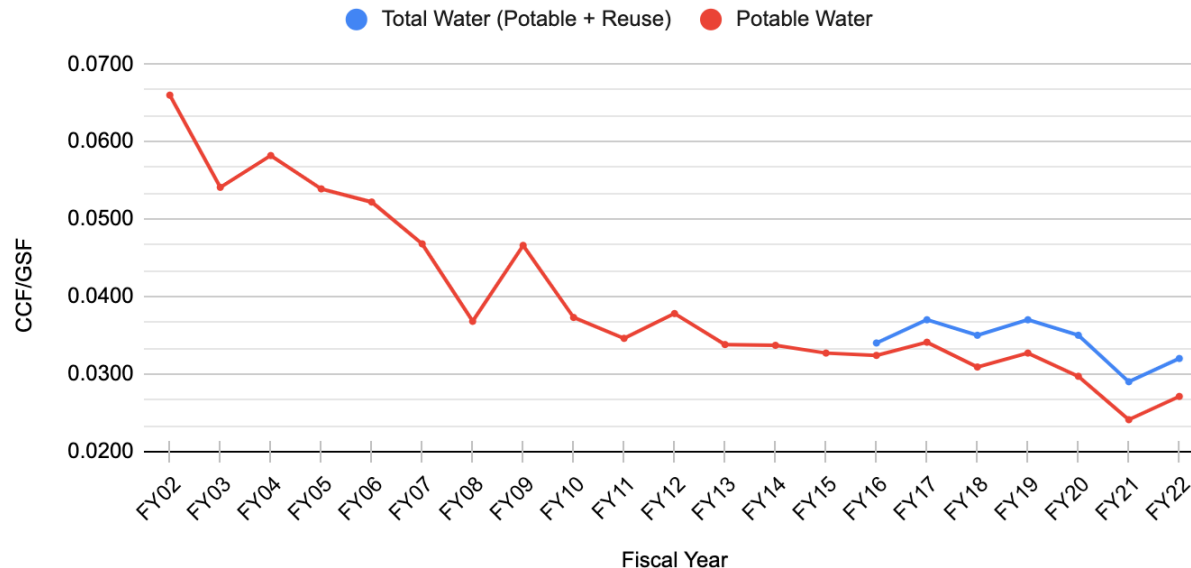
Landfill Diversion Rate (2014-2022)



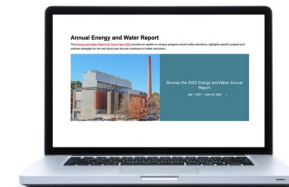
Potable Water Use Has Declined 59% Since 2002

Current Goal is 65%

Water Use Of Raleigh Campus (2002-2022)



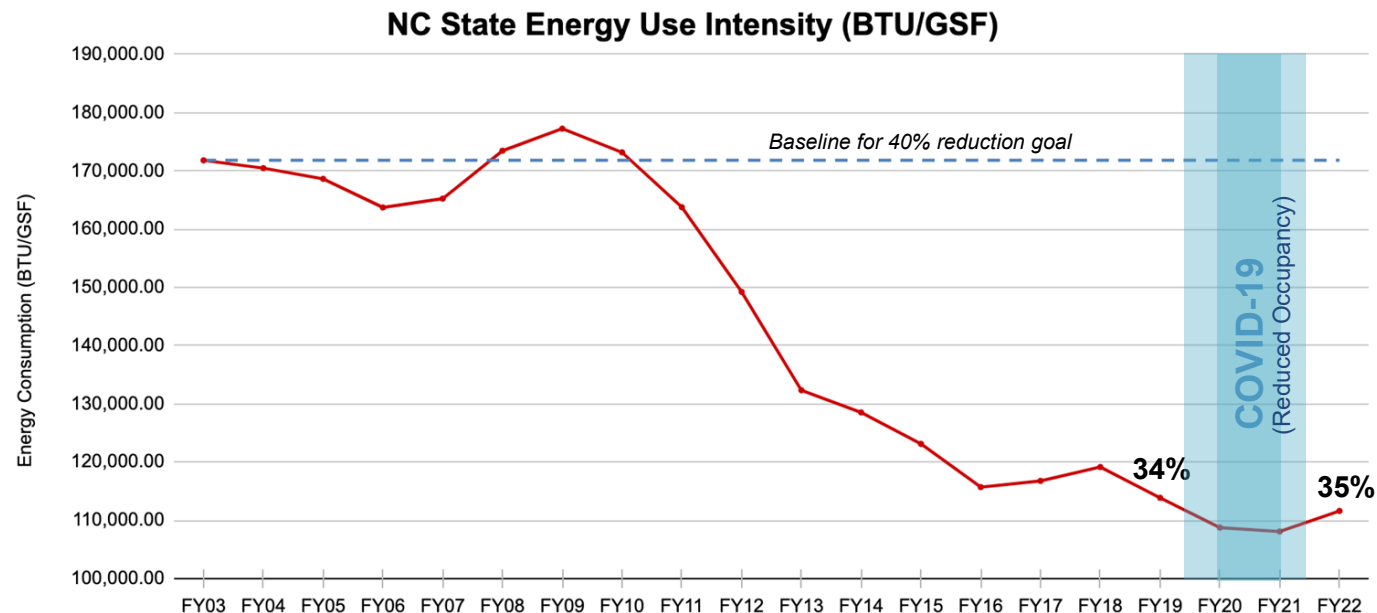
EXPLORE MORE



Annual Energy/Water Report:
go.ncsu.edu/energyreport

Energy Use Has Declined 35% Since 2003

Current Goal is 40%



EXPLORE MORE

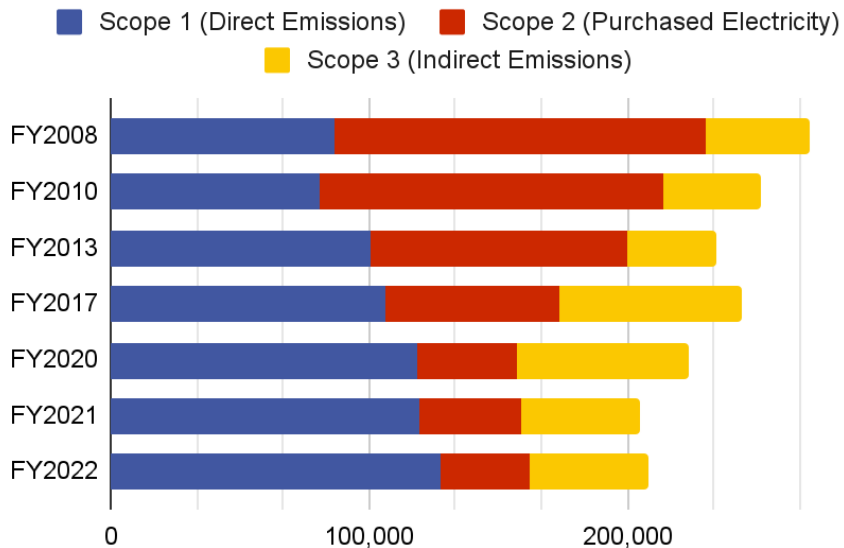


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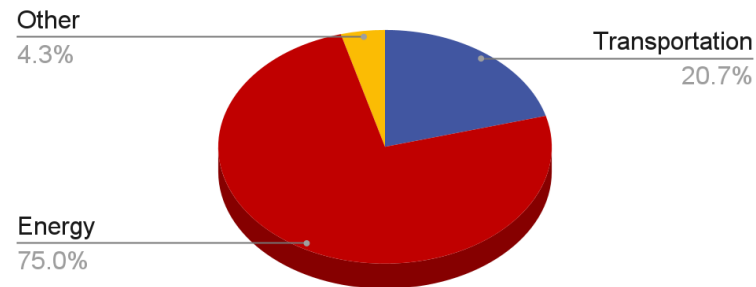
Emissions Have Declined 23% Since 2008

Current Goal is Neutrality by 2050

Emissions Of The Raleigh Campus (2008-2022)



Categories of Emissions (FY22)



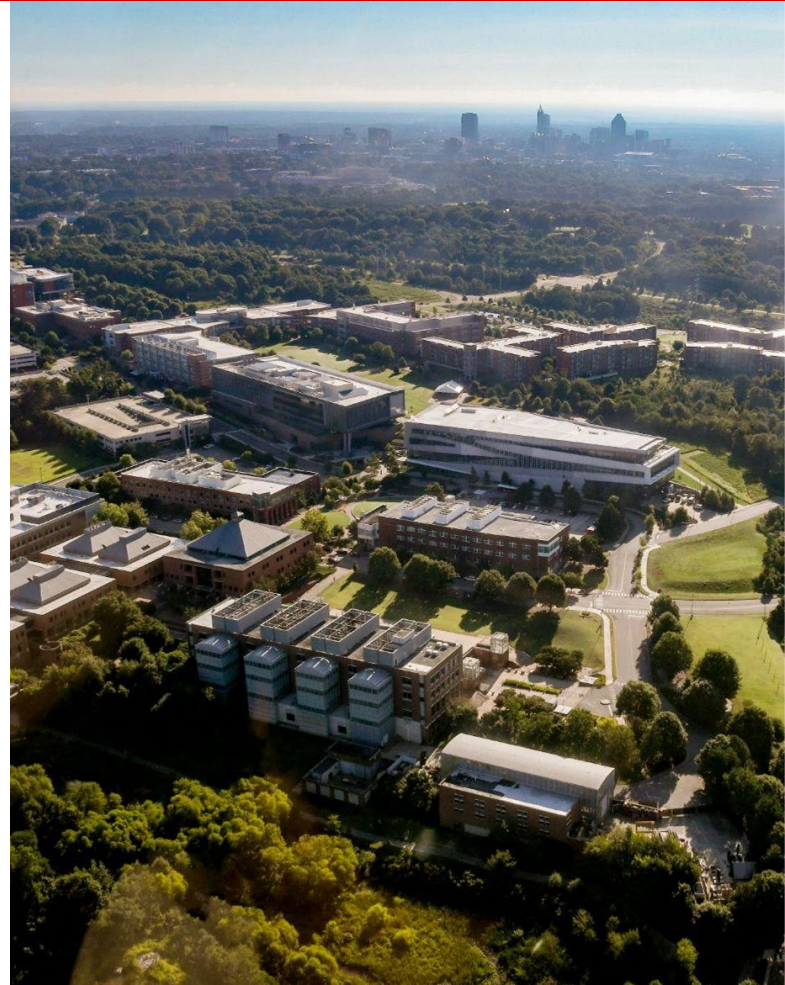
EXPLORE MORE

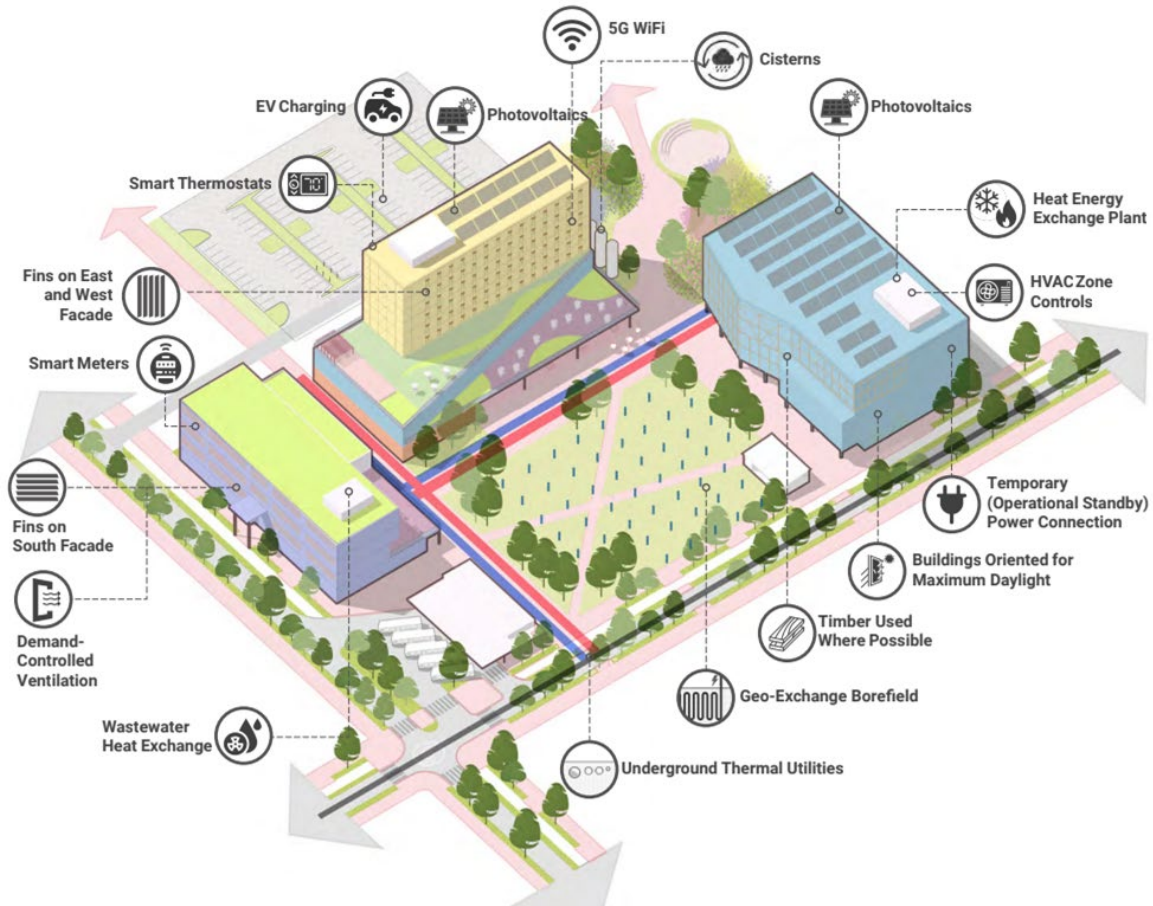
Emissions dashboard: go.ncsu.edu/ghg

Planning With Sustainability In Mind

PHYSICAL MASTER PLAN HAS GUIDING
PRINCIPLE TO STEWARD CAMPUS RESOURCES

NC State will serve as a model of
environmental, social, and financial
leadership, promoting a more resilient future.







Student construction project manager for
Fitts-Woolard solar installation



Earn **certification** for taking sustainable actions in your campus workplace or at events



Share **ideas** for how to boost efficiency or stewardship on campus



Partner to use campus for applied sustainability education, research and benefits

ACADEMICS GOAL

Integrate sustainability into education, experiences, and research.



Students in the Environmental First Year Program tour a campus rain garden

College of
Veterinary
Medicine

College of
Education

SUSTAINABILITY AS A CONNECTOR

College of
Agriculture and
Life Sciences

The Graduate School

Poole College of Management

College of
Sciences

College of
Engineering

College of Natural
Resources

College
of Design

Wilson College
of Textiles

University
College

College of
Humanities and
Social Sciences



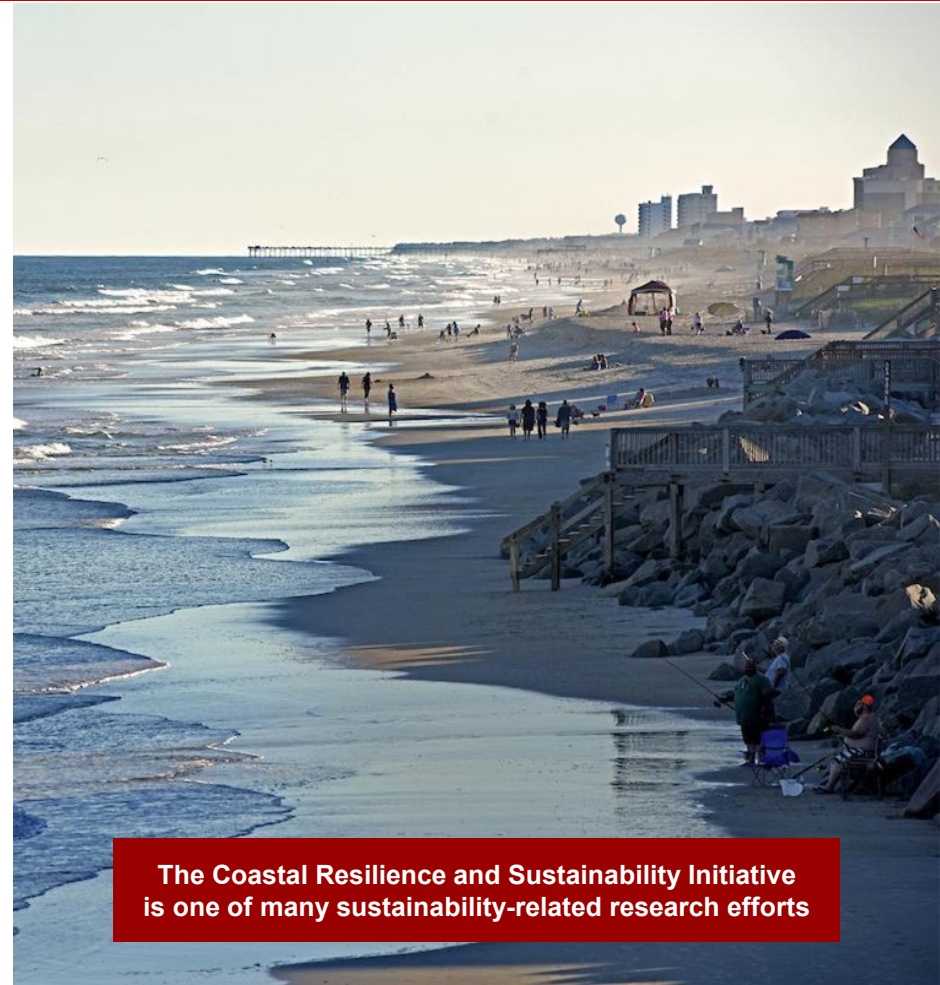
Research

719 faculty members conducted sustainability-related research

96% of academic departments have at least one faculty member conducting sustainability-related research

10+ sustainability-related research centers

#18 in the U.S. for sustainable research (2022 QS World University Rankings)



The Coastal Resilience and Sustainability Initiative is one of many sustainability-related research efforts

GLOBAL SUSTAINABLE DEVELOPMENT GOALS



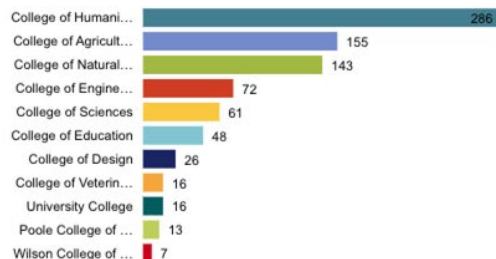
Sustainability Course Inventory

843

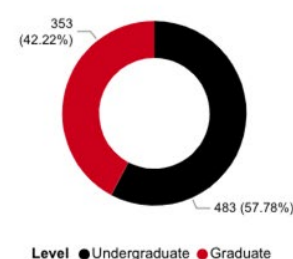
sustainability-
related courses

Browse online:
[go.ncsu.edu/
SDGcourses](https://go.ncsu.edu/SDGcourses)

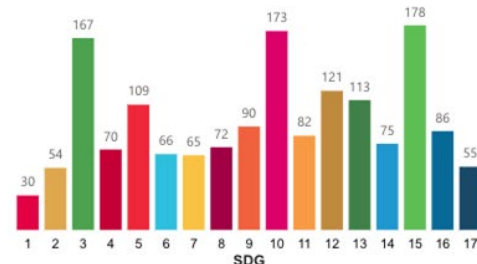
Number of SDG-Related Courses by College



Number of SDG Courses by Level



Number of Courses by SDG



Browse by Level					
Search <input type="text"/>					
All					
Browse by College					
All					
Browse by SDG					
All					
Clear Selections					
College	Course Prefix & Number	Course Title	Course Description	Level	SDGs
College of Agriculture and Life Sciences	AEC 203	An Introduction to the Honeybee and Beekeeping	Introduction to honey bee biology and a fundamental understanding of beekeeping management including crop pollination by bees. Examination of the relationships between honey bees and humans from prehistoric through modern times and the behavior and social system of one of the animal world's most complex and highly organized non-human societies.	Undergraduate	2
College of Agriculture and Life Sciences	AEC 360 (Cross-listed PB 360)	Ecology	The science of ecology, including factors which control distribution and population dynamics of organisms, structure and function of biological communities, and energy flow and nutrient cycling in ecosystems; contrasts among the major biomes; and principles governing ecological responses to global climatic and other environmental changes.	Undergraduate	13, 15
College of Agriculture and Life Sciences	AEC 380	Water Resources: Global Issues in Ecology, Policy, Management, and Advocacy	This course will take a broad look at global issues associated with water resources, including the ways that people interact with water (how we use, degrade, conserve, and advocate for water and water rights). And how these interactions shape our lives. Woven throughout the course is the fact that science (ecology), policy (resource management), and cultural	Undergraduate	6, 10, 14



**United
Nations**

UN Chronicle

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North Carolina State University Bell Tower, Raleigh, North Carolina, United States, 2009. Haruhide000, CC BY-SA 3.0 via Wikimedia Commons

From “Think” to “Do”: Operationalizing the Sustainable Development Goals in University Curricula



Sustainable Futures Initiative



The Sustainable Futures Initiative

Imagining and Implementing Sustainable Solutions for Society

- **Synergizing On-Campus Work**
- **Facilitating Curriculum Development**
- **Coordinating On- and Off-Campus Application**
- **Fostering Transformational Research**
- **Enhancing Community and Representation**