Administrative Leadership Meeting

Randy Woodson
Chancellor
Tuesday, July 18, 2022
<table>
<thead>
<tr>
<th>Date</th>
<th>Event Description</th>
<th>Presenter</th>
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<tr>
<td>September 12</td>
<td>EAPED Updates</td>
<td>Titmus</td>
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<tr>
<td>November 7</td>
<td>Strategic Plan Report Card</td>
<td>Titmus</td>
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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
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

First Campus-Wide Sustainability Effort
The Campus Environmental Sustainability Team

2002
First Sustainability Strategic Plan
- Academics & Research
- Engaging the Community
- Energy & Water Conservation
- Green Development
- Purchasing & Waste Reduction
- Transportation

2008
Sustainability Office
Launches as hub for sustainability information and action on campus

2011
Sustainability Council
Launches as new campus-wide committee for sustainability

2015
Second Sustainability Strategic Plan
- Academics
- Student Leadership
- Operations, Planning & Design
- Community & Culture
- Communications

2017
2023
Planning for the Future
The NC State community is equivalent to the 24th largest city in North Carolina.
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.

**EcoVillage**
University Housing’s living and learning community focused on sustainability.

**Make-A-Thon**
Annual weekend-long entrepreneurship contest focused on sustainability.

**B Corp Clinic**
Engages students as consultants improving the environmental and social impact of businesses.

**Social Innovation Fellows**
Team-based learning experience for student entrepreneurs to consider social and environmental impact.

**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:

1. Internships
   - Project-based internships with faculty or staff
   - (54 in the first 3 years)

2. Courses
   - Projects connected to a course

3. Student-Led Projects
   - Projects initiated by students

“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.
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.

ON THE RALEIGH CAMPUS

**Buildings**

**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%
Potable Water Use Has Declined 59% Since 2002
Current Goal is 65%

Water Use Of Raleigh Campus (2002-2022)

Total Water (Potable + Reuse)  Potable Water

Fiscal Year

Annual Energy/Water Report: go.ncsu.edu/energyreport
Energy Use Has Declined 35% Since 2003
Current Goal is 40%

NC State Energy Use Intensity (BTU/GSF)

Baseline for 40% reduction goal

COVID-19 (Reduced Occupancy)

34% 35%

Annual Energy/Water Report: go.ncsu.edu/energyreport
Emissions Have Declined 23% Since 2008
Current Goal is Neutrality by 2050

Categories of Emissions (FY22)
- Transportation: 20.7%
- Energy: 75.0%
- Other: 4.3%
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.
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

1. No Poverty
2. Zero Hunger
3. Good Health and Well-being
4. Quality Education
5. Gender Equality
6. Clean Water and Sanitation
7. Affordable and Clean Energy
8. Decent Work and Economic Growth
9. Industry, Innovation and Infrastructure
10. Reduced Inequalities
11. Sustainable Cities and Communities
12. Responsible Consumption and Production
13. Climate Action
14. Life Below Water
15. Life on Land
16. Peace, Justice and Strong Institutions
17. Partnerships for the Goals
Sustainability Course Inventory

843 sustainability-related courses

Browse online: go.ncsu.edu/SDGcourses

<table>
<thead>
<tr>
<th>College</th>
<th>Course Prefix &amp; Number</th>
<th>Course Title</th>
<th>Course Description</th>
<th>Level</th>
<th>SDGs</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Agriculture and Life Sciences</td>
<td>AEC 203</td>
<td>An Introduction to the Honeybee and Beekeeping</td>
<td>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.</td>
<td>Undergraduate</td>
<td>2</td>
</tr>
<tr>
<td>College of Agriculture and Life Sciences</td>
<td>AEC 360 (Cross-listed PE 360)</td>
<td>Ecology</td>
<td>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.</td>
<td>Undergraduate</td>
<td>13, 15</td>
</tr>
<tr>
<td>College of Agriculture and Life Sciences</td>
<td>AEC 380</td>
<td>Water Resources: Global Issues in Ecology, Policy, Management, and Advocacy</td>
<td>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 aspects of water (water rights) are all interwoven.</td>
<td>Undergraduate</td>
<td>6, 10, 14</td>
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From “Think” to “Do”: Operationalizing the Sustainable Development Goals in University Curricula
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