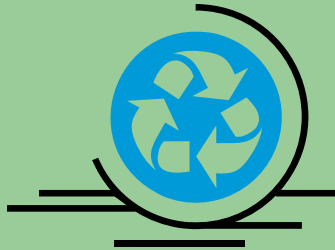




Integrating Sustainability into the Curriculum

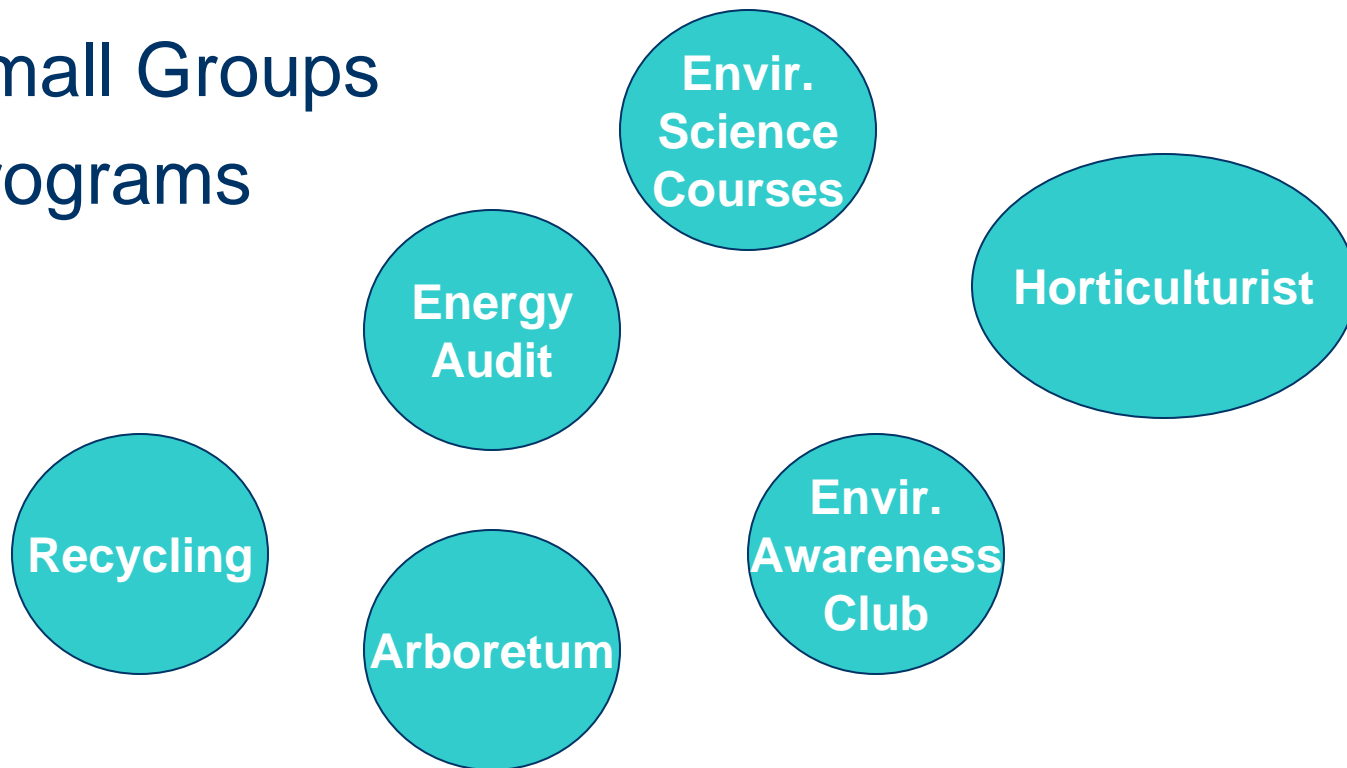


**HIGHER EDUCATION & SUSTAINABILITY:
MAKING INROADS INTO ACADEMIA**

Cleveland State CC Experience
April 1, 2010

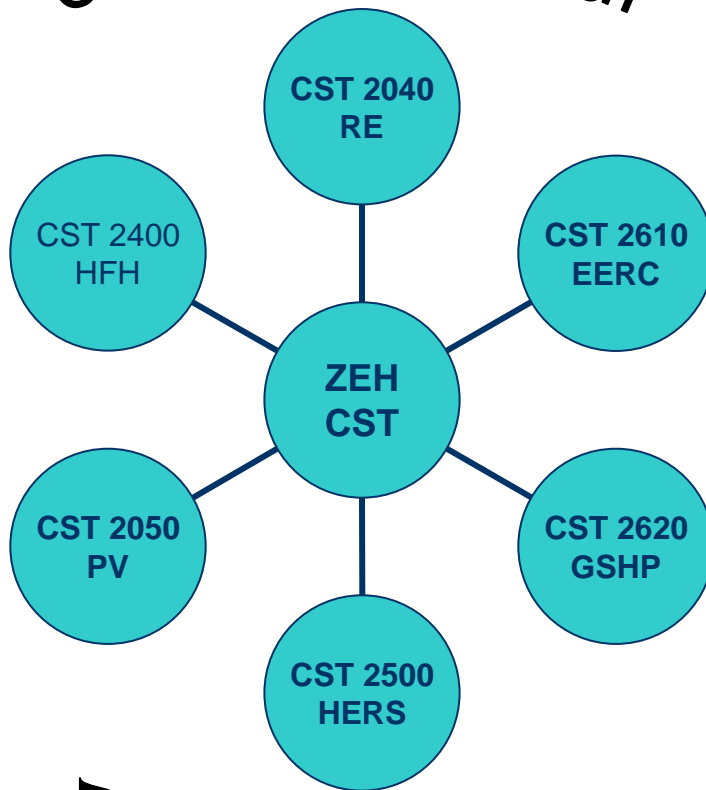
The Beginnings

- Individuals
- Small Groups
- Programs

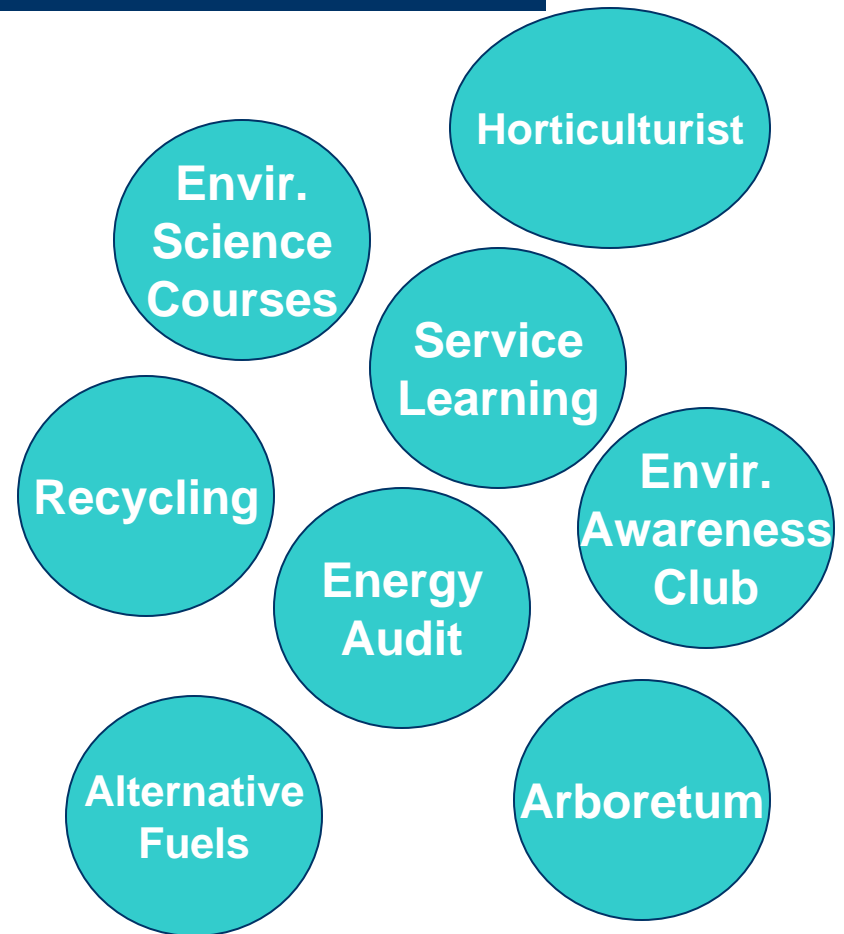


The Additions

Community Outreach



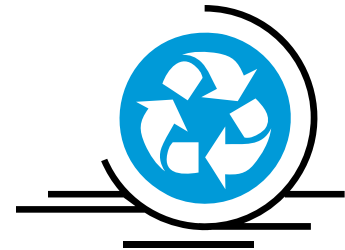
Demonstrations

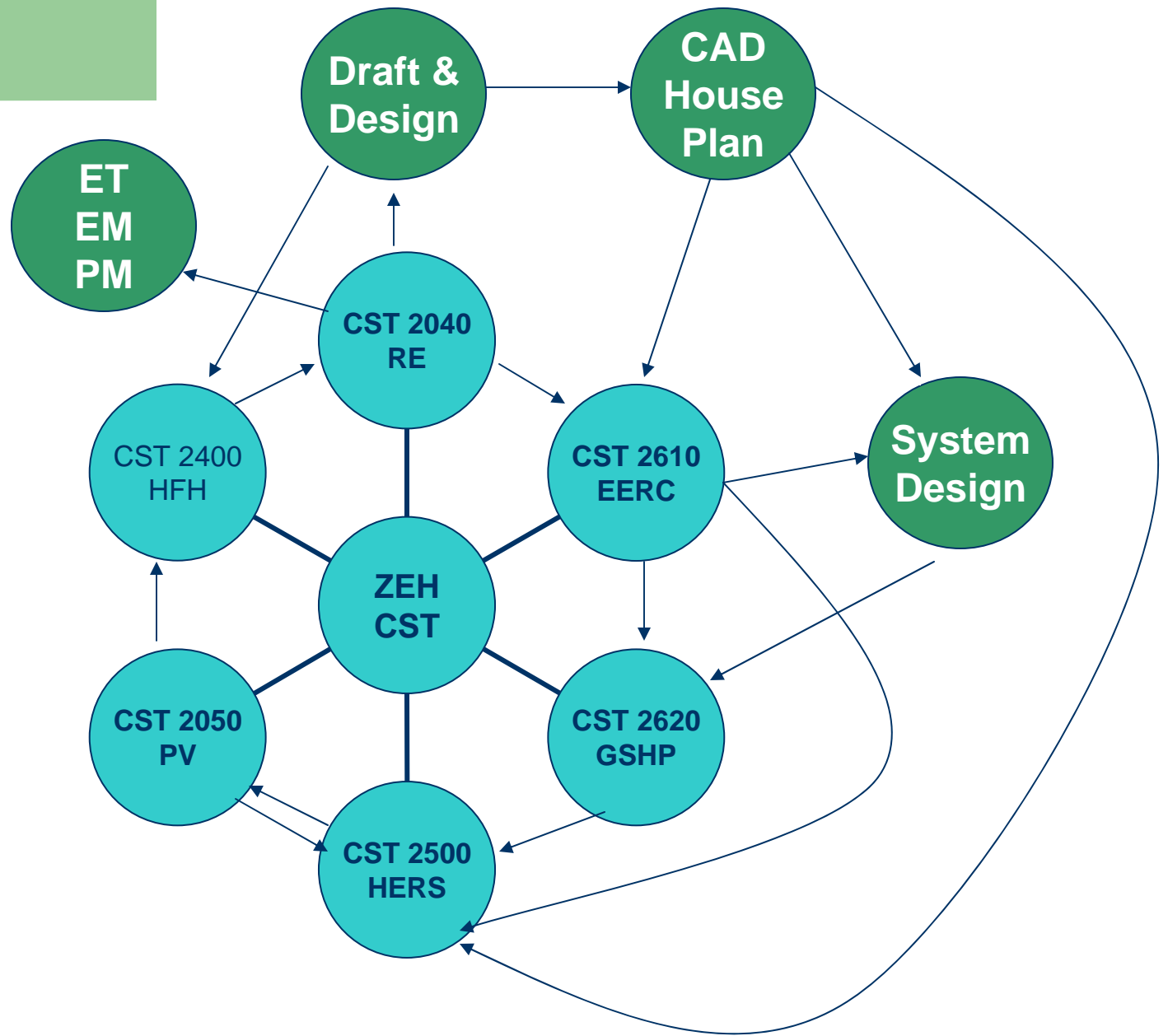


The Integration



- Vision – “Every graduating student will develop a ‘mode of thinking and making decisions that considers the natural, cultural, and built environments as an integrated whole.’” (Franklin, Durkin, Pevaroff Schuh, 2003)
- Support of the Leadership
 - Establish committees
 - Support events
 - Promote with Faculty, Staff, & Students
- Sustainability Committee
 - Focus efforts
- Technology Curriculum
 - CST, D&D, CCT, EM, ET
- All Curriculum ?





Results



- Sustainability Committee
- Challenge to extend across all curriculum
- CC for Sustainability Conference Calls
- Alliance for Sustainable Communities





Programs

Grid Tied Solar PV system
Wind turbine generation
Sustainability links on the web site
Recycling
Print management
Printer cartridge recycling
Tree Care Plan
Campus – certified arboretum
Hiking Trails



It'S All About the Green **Environmental Awareness Event**

April 17, 2010

Events



Solar Summit 2008
Focus the Nation 2008
TN 4-H Electric Camp 2008
Governor's Summit on Clean Energy 2008
Green Day 2009
Accessibility2009: Sustainability public art event
Conference calls on campus sustainability
Creation Care Conference 2009
Green Job Symposium 2009
Green Summit – Pinehurst, NC 2009
TN Green Building Summit 2009
Campus Sustainability Summit 2009 @ MTSU
Alliance for Sustainable Communities
Belmont Sustainability Workshop Feb. 2010
Tennessee Saves – Save Green, Go Green March 2010



Infrastructure

Two campus Energy Audits
Classroom lighting upgrades
Classroom motion activated lighting controls
2nd lowest energy usage per sq. ft. in TBR system
Campus Sustainability Committee
Recycling Committee
Tree Campus Committee

Recognitions

Landscaping, Business of the Month – Cleveland/Bradley Keep America Beautiful
Wildlife Habitat
2008 Governor's Environmental Stewardship Award for Energy Leadership
2009 USGBC Award for Excellence in Green Building Education
2010 Tree Campus USA Designation

Promotion

FACTS ABOUT RECYCLING

The average American uses 650 pounds of paper each year-100 million tons of wood could be saved each year if all that paper were recycled.

REDUCE • REUSE • RECYCLE



Cleveland State
COMMUNITY COLLEGE

Promotion

Cleveland State Community College

Moving Towards Zero Energy Homes in the Tennessee Valley

High School Program

- Introduce Zero Energy Objectives
- Construction Materials
- PV Panel Installation
- Solar Water Heating Installations
- Prepare Students for CSCC Programs

Construction Technology Program

- 1 Year Certificate Program
- 2 Year Degree Program
- Scholarships for One Year Program
- Groundwork for PV Installation Certification

Architectural

- Drawing
- Commercial Planning

Engineering

- Computer Aided Design

Construction

- Techniques and Methods
- Cost Estimating
- Standard Building Codes
- Renewable Energy
- PV Panel Installation
- Energy Efficient Construction
- Contracting

Cleveland State is offering a community based job training program through a grant from the U.S. Department of Labor to promote energy efficient residential construction technologies and practices.



Cleveland State is partnering with Habitat for Humanity to provide opportunities for hands-on experience with many construction materials and methods.

 Habitat for Humanity®



Industrial Technology

- Measurements & Calculations
- Introduction to Technology

Other

- English Composition
- Math
- Physics
- Public Speaking
- Humanities & Social Science Electives

A Cleveland State Technology Department Program.

Celebrating our past • Planning for your future
40th
Anniversary
1967-2007

Promotion

The Only Zero Energy College Program in the Tennessee Valley!

Scholarship
opportunities are
available now!
Get your training in
Zero Energy home
building techniques.

Cleveland State's Construction Technology curriculum promotes better building practices to support increasing demand for energy efficiency. The program offers courses in solar applications, tight building and insulation practices, sealed crawl spaces, and other energy efficient practices and technologies. Combine well built homes with new technologies like solar electric, solar thermal, or ground source heat pumps, and a zero energy scenario is possible.

CSCC Construction Technology Program

- Certificate and Degree Programs
- Entry Level PV Installer Certification
- Home Energy Rater Certification
- Cleveland and Vonore Locations
- Scholarship Opportunities



For more information contact:
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Office: (423) 473-2447
(800) 604-2772, ext. 447
Cell: (423) 829-5263
Email: agentry@clevelandstatecc.edu

Winner of the 2008 Governor's Environmental
Stewardship Award for Energy Leadership.



Cleveland State
COMMUNITY COLLEGE

The Future

- Demonstrate that the vision has been captured
- Diploma with Sustainability Emphasis
 - Points system
 - Points for a credit course directly tied to sustainability
 - Points for papers and/or projects in general education courses dealing with a sustainability issue/topic