Education for Sustainable Development – An Integrative Project Delivery (IPD) Approach

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Net Zero Energy Addition
LEED Silver, Net Zero Electric
New Home, Toms River NJ
TD Bank, Cypress Creek Florida
Net Zero Energy

55 kW PV for Net Zero Energy
Microsoft School of the Future
50% Reduction in Energy & Water
Net Zero Storm Water
Carbon Neutrality Master Plans

Rider University (1.4mil sf)  The College of NJ (3mil sf)

City of Trenton (750k sf)
100 Level

• **Knowledge** – What it is and why care.
• Shorter courses (30min – 2 hour blocks)
• Class exercises important to engagement
• Case studies aid in comprehension & retention
• In person, live webinar and entirely on-demand online
The New Jersey Green Programs of Study: Sustainable Design, Green Construction and Sustainable Energy are
Green Program of Study

- New Jersey was one of five states awarded grant to develop 9-12th sustainable curriculum.
- Public/Private Partnership included educators, pilot schools, industry leaders and local matriculation partners
- Focused on Career-outcomes in three tracks – Design, Construction, Energy
- Multiple Off-Ramps: Workforce, 2-year, 4-year

http://njgpos.wdwx.co/about/program-overview/
Leadership in Energy & Environmental Design (LEED) - Green Associate
300 Level

• **Understanding** – What to do with knowledge.

• Longer courses (1-15 weeks)

• Independent Research brought back to entire class helps education entire class

• In-Class videos, homework, testing reinforce& assess uptake of content

• Case studies great assistance in comprehension & retention
Principles of Sustainability SST100 Rowan @ Burlington County

• Associate of Applied Science in Alternative Energy Technologies
• Associate of Science in Sustainable Energy Studies
• Associate of Science in Sustainability – Policy and Management
• Alternative Energy Technologies Certificate
Principles of Sustainability (SST-100)

• Covers climate, energy, water, food, policy, population, ecology, waste, materials

• 15 week, 3 Credit, 1 night/week, 2.5 hours ea.
500 Level

• **Application & Evaluation**—How do I do it and improve?

• Short Intensive Classes to Longer courses

• Independent Research & Presentations

• Independent & **Group Projects**

• Class homework, testing & reading

• **Case Studies** & Site Visits great assistance in comprehension & retention
Certificate in Sustainable Design
Certificate in Sustainable Design

- 4 Courses Required - 3rd year to graduate level
- 15 weeks each, 1 night/week, 3 hour classes
- Entirely in person
LEED/WELL – Accredited Professional

Certified Sustainable Building Advisor

Life Long Learning Institute

Carbon Reduction Manager (CRM)

Certified Energy Manager (CEM)

Climate Reality Leader

Gpro Certified
Degree in Sustainability

Now What?!!