Green Building Education at UMass - Filling the Needs of Practitioners

November 10, 2009
MassMutual Center
Springfield, MA

by

Dr. Peggi L. Clouston, Ph.D., M.A.Sc., P.Eng.
Associate Professor
Building and Construction Technology (BCT) Program
Department of Natural Resources Conservation
clouston@nrc.umass.edu
Natural Resources Conservation
Architecture and Engineering

Fine Arts Center, UMass, Amherst

Structures Lab, UMass, Amherst
Areas of specialization:

- Contractors (Green Builders)
- Engineers
- Architects and designers
- Renewable energy professionals
- Installers
- Home energy technicians/specialists
Teaching Mechanisms

- Undergraduate Classes
  - Traditional (Energy Efficient Housing)
  - Online & Hybrid (LEED certification)
- Professional MS Green Building
- Online Prof. Development Series
- Student Research
- Workshops, Seminars, Conferences
Professional Masters Option in Green Building

- Professional degree, no thesis
- Targeted at Architects, Engineers, Builders
- Highly interdisciplinary
  - Sample courses
    - Sustainable Building and LEED Certification (Building)
    - Social Conflict and Natural Resource Policy (NRC)
    - Energy Efficient Housing (Architecture)
    - Solar Energy Conversion (Mechanical Engineering)
    - Indoor Environment and Health (Public Health)
    - Issues In Environmental Management (Regional Planning)
Online Prof. Development Series

Courses:

1. Sustainable Building and LEED Certification
2. Energy Efficient Housing
3. The Built Environment
4. Green Building and Indoor Environmental Quality
5. Sustainable Sites for Green Building
BCT student research
BCT Seminar Series

Fall 2008 Lecture Series

- Some of the talent:
  - **Tedd Benson**, Builder and Author, Benson Woodworking Co., Inc.
  - **Paul Lipke**, Executive Director for Sustainable Step New England
  - **Betsy Pettit**, President of Building Science Consulting
  - **Scot Horst**, chair of the U.S. Green Building Council’s (USGBC) LEED Steering Committee
More information ...

Green Building Website

Building & Construction Technology Website

http://gb.nrc.umass.edu

http://bct.nrc.umass.edu
BMATWT 211 Energy Efficient Housing

- Since 1992
- Fundamentals of residential energy-use
- Energy-saving materials and products
- Energy-efficient technology and design
- Sustainable construction
- Alternative energy sources
- Affordable housing
- Political impact and regulatory developments.

Dr. Peggi L. Clouston, P.Eng.