



UMassAmherst

Continuing & Outreach Professional Education

University of Massachusetts Green Programs

Green Career Conference
October 2, 2009

Victoria Matthew

With a UMass education you can:

- Position yourself for jobs in the expanding number of small and medium sized enterprises
- Start your own business
- Position yourself to fill executive level positions
- Bridge the knowledge/skills gap:
 - Project management
 - Contract management
 - Finance
 - Sales
- Tap into world-class, cutting edge research

UMass Research: Clean Energy Technologies

- Floating, offshore wind turbines
- “Green” gasoline, diesel and jet fuel
- Inexpensive and efficient light-harvesting materials
- Affordable hydrogen-powered fuel cells
- Marine Renewable Energy
- Carbon-free municipal heat and power
- Zero-energy homes and buildings
- Economic and Policy Analysis of Clean Energy and Climate Change

http://www.umass.edu/green/CE-research_overview.html

Concentration

- Meet needs of growing, green oriented enterprises
- Credit for prior learning
- Individualized degree design
- Sustainable Entrepreneurship courses:
 - Triple bottom line
 - Networking
 - Funding your venture
- Selection of courses from across curriculum e.g.
 - Sustainable food and farming,
 - Green Building
 - Geothermal heat pump design and installation
 - Holistic Health
 - Business

Bachelor's Degree with Individual Concentration

- Students bring multiple interests together into a major that they design with help from faculty and advisors.
- Leadership and hands-on experience are emphasized
- Perfect way to combine environmental science and other fields like business or humanities
- BDIC concentrations include "Green Technology and Marketing," "Sustainable Living," and "Green Roofs."

More information:

Call 413 545-2504 and ask to speak to Linda Roney.

Visit <http://www.umass.edu/bdic>

▪ **Professional Masters in Green Building**

- Interdisciplinary
- Designed for professionals/non-thesis
- 6-credit practicum
- On campus
- Contact: Dr. Peggi Clouston, 413-545-1884; clouston@nrc.umass.edu
<http://gb.nrc.umass.edu/index.php/professional-masters-option-in-green-building/>

▪ **Green Building Professional Development Series**

- Series of 5 courses
- Online w/ optional face-to-face
- Undergraduate credit or non-credit
- Integrate into UWW degree completion program
- Contact: Dr Dave Damery 413-545-1770; ddamery@nrc.umass.edu;
www.umasslearn.net/green

- The country's oldest and best known energy education program
- For over 30 years has trained leaders in wind engineering
- Part of the Mechanical and Industrial Engineering (MIE) Department
- **Undergraduate:** take wind energy courses; participate in wind energy research
- **Master's and doctoral-level** degrees specializing in wind energy
- Graduate student research opportunities
- Contact: Matthew Lackner, lackner@ecs.umass.edu; 413 545 4713 or Patrick Quinlan, quinlan@ecs.umass.edu

Geothermal Heat Pump Installation & Design

2-day workshop:

- **Fall/Winter:** Saturday 12/5 and Sunday 12/6, 9-4pm in Worcester
- **Spring:** TBA

Major components of the course :

1. **Geology of MA** - How does geology help with siting and design?
2. **Best practices** for designing the system
3. **Installation** - Selecting a driller and achieving design depth
4. **Permitting standards in MA**

Outcomes:

1. Bridge the knowledge gap
2. More efficient installation
3. Improved system operation and lifespan
4. Reduced failure rate
5. Meet permitting standards

Contact: Stephen Mabee sbmabee@geo.umass.edu 413-545-4814

Landscape Architecture and Regional Planning (LARP)

- **AA Landscape Contracting Program:**

Michael Davidsohn, Program Director davidsohn@larp.umass.edu

- **BS in Landscape Architecture**

Jane Thurber, Program Director jthurber@larp.umass.edu

- **BS in Environmental Design**

Patricia McGirr, Program Director mcgirr@larp.umass.edu

- **Masters in Landscape Architecture**

Contact: Mark Lindhult, Program Director (lindhult@larp.umass.edu)

- **Masters of Regional Planning**

Contact: Mark Hamin, Program Director (mhamin@larp.umass.edu)

- Additional Graduate Programs (including PhD programs) listed at www.umass.edu/larp.

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Architecture + Design

Interdisciplinary; socially progressive, and environmentally responsive design.

- Master of Architecture
 - New England's first and only public architecture program
 - 2 years (for students with bachelors in architecture or related subject)
 - 3 years (for students with bachelors in unrelated subject)
- Masters of Science in Design
 - UMass Amherst and Hancock Shaker Village partnership
 - Historical preservation
 - 21st Century sustainable building practices
- **Contact: Stephen Schreiber, Program Director**
schreiber@art.umass.edu; 413-577-1575

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UMass Dartmouth

Online:

- Graduate Environmental Policy Certificate
Chad McGuire, cmcguire@umasd.edu
- Sustainability Certificate Program
Garry Clayton, gclayton@umasd.edu
- (New!) Graduate Energy/Carbon Management Certificate
Susan Jennings, sjennings@umasd.edu
- Sustainability Minor
Garry Clayton (gclayton@umasd.edu)
- Green Building Training
Susan Jennings, sjennings@umasd.edu
- Green Entrepreneurship Training
Susan Jennings, sjennings@umasd.edu

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Questions?

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