The Certificate in Green Technologies and Sustainability Program is targeted to offer workforce skills training in a variety of fields with options to test for national industry certifications. The program’s main focus is the preparation of job ready skills to assist displaced or unemployed workers in obtaining immediate employment opportunities.

Green Technologies and Sustainability Program Course Information and Training Sessions Videos are available online. Please visit us at Bergen.edu/continuinged

CD 508 Introduction to Sustainability
8 sessions; 20 hours; $269
001, Th.; October 1-November 19, 2015
Hours: 6:30-9:00 p.m.
Location: TBA

Sustainability is one of the most important and fastest growing interdisciplinary fields in the 21st century. Discover the true meaning of sustainability through this in depth study of the terms, core concepts, examples of sustainable practices, triple bottom line, and the interrelationship of stakeholders. **Required Text:** Cradle to Cradle, Remaking the way we make things, by M. Braungart & W. McDonough, available at the BCC bookstore

Instructor: Terrance Moran, Sustainability & Energy Professional

CD 122 Introduction to Biofuels
5 sessions; 10 hours; $199
001, Fri.; September 25-October 22, 2015
Hours: 6:30-8:30 p.m.; Field trip: 9:00-11:00 a.m.
Location: TBA

This course provides an understanding of the technologies that drives the Biofuels industry, supply chain, markets, impact on food production, and the various motivations for its development. We will take an introductory look at the small business opportunities and take an educational field trip to a local biofuel facility. Course attendees provide own transportation.

Instructor: Gerald Vernice, Emeritus Member of American Chemical Society

National Certification Exam: Green Advantage® Exam
CD 494 LEED Green Associate: Exam Prep
8 sessions; 20 hours; $325
001, Th; February 25-April 21, 2016
Hours: 6:30-9:00 p.m.
Location: TBA
The LEED Green Associate Exam is for professionals who want to demonstrate green building expertise in non-technical fields of practice. This course reviews the knowledge of green design concepts, terminology, construction, and operations. The Green Associate also serves as the first step for professionals pursuing a LEED AP with specialization.
Instructor: TBA

CD 512 Water Resource Management
4 sessions, 10 hours; $199
001, Tue; November 24-December 15, 2015
Hours: 6:30-9:00 p.m.; Field Trip, 9:30-11:30 a.m.
Location: TBA
Discover ways to reduce water demands and learn about resiliency and recovery during emergencies, water quality management, increasing groundwater absorption, state regulations, coastal and storm water management. This course highlights sustainable solutions to reduce the impact on this precious natural resource. This course includes an educational field trip to a Water Treatment Plant. Attendees are responsible for transportation.
Instructor: TBA

CD 581 Environmental Testing
5 sessions, 12 hours; $229
001, Tue; February 23-March 29, 2016
(no class 3/15)
Hours: 6:30-9:00 p.m.
Location: TBA
In order to be able to manage environmental contaminants, you must first be able to measure them and understand what the results mean. Environmental testing techniques have been developed to help scientists, engineers and decision makers assess environmental risk and take steps to assure the safety of people and the ecosystem. Take this course and learn about environmental testing procedures and how these techniques can help us protect people and the environment.
Instructor: Craig Doolittle, P.E., TRC Solutions

CD 515 Windows & Doors
4 sessions; 8 hours; $225
001, Mon; November 16-December 7, 2015
Hands on Training Session: 6:30-8:30 p.m., Pella Factory West Caldwell, NJ
Location: TBA
This course offers practical ways to increase energy efficiency through the replacement window and door industry. Learn about a variety of ratings information, the wide array of options and materials available, and how to select products that will contribute to LEED points. Complete skills training workshops on proper removal, disposal and installation methods will be conducted. Earn seven CE Units issued by the AIA, American Institute of Architects, for Health Safety & Welfare, or HSW. 7 AIA-CEU/HSW credits. A component of this class will take place in the Pella warehouse. Course attendees provide own transportation for field trips.
Instructor: Michael Korengay, GM Commercial Sector, Pella Windows & Doors

CD 509 Blueprint Reading Basics*
12 sessions; 30 hours; $330
001, M/W; February 29-April 13, 2016
(no class 3/14, 3/17)
Hours: 6:30-9:00 p.m.
Location: TBA
This 30-hour course starts as an introduction to blueprints and working drawings, dimensioning and using scales, symbols, sections, profiles and cross sections, details, topography and contour lines, notes and structural drawings. Learn in-depth floor plans and abbreviations and symbols. Topics also covered include topography and elevations, utilizing benchmarks, fire separation assembly, means of egress, and when to call an architect versus an engineer. Textbooks are required the first class session. * Prerequisite Required: CD 582 Construction Estimating Basics. Required Text: Building Trades Print Reading Part 2 “Residential & Light Commercial Construction,” Building Trades Print Reading Part 2 “Plans.” Available at the BCC Bookstore.
Instructor: Jeff Lewis, Construction Professional

CD 582 Construction Estimating Basics*
6 sessions, 15 hours; $235
001, Mon; November 16-December 21, 2015
Hours: 6:00-8:30 p.m.
Location: TBA
An introduction to construction estimating basics. Learn material take-offs and computations, pricing, labor requirements, cost factors, and other information involved in project estimating. * Prerequisite Required: CD 509 Blueprint Reading Basics, or experience reading blueprints.
Instructor: TBA

CD 578 Waste Management & Reduction
5 sessions; 15 hours; $249
CEUs: 10 CEUs for NJ Certified Recycling Professionals, NJ CRP
001, Tue; September 22-October 20, 2015
Hours: 6:30-9:30 p.m.; Field Trip on weekday, 9:00-11:00 a.m.
Location: TBA
Take this course and learn about how waste management and reduction programs have developed in the US, the regulations and technologies that have emerged to support that development and practical approaches that can be employed to continually reduce our impacts on our environment. Students provide their own transportation for the scheduled field trip.
Instructor: Craig Doolittle, P.E., TRC Solutions

AIA/CES LEARNING UNITS FOR ARCHITECTS
Bergen Community College is registered as a premier provider with the American Institute of Architects. Continuing Education System (AIA/CES), Provider # F162. The AutoCAD and Revit courses meet the AIA/CES criteria for Quality Level II, one learning unit per hour of instruction.
CERTIFICATE IN GREEN TECHNOLOGIES AND SUSTAINABILITY

CD 510 Introduction to Building Science & Sustainable High Performance Building Design
8 sessions; 16 hours; $259
001, Wed; September 30-November 18, 2015
Hours: 6:30-8:30 p.m.
Location: TBA

Save energy by creating a more energy efficient building envelope. Participants will learn principles of air leakage and some key ways buildings are influenced by increased air tightening, mechanical exhaust devices and moisture movement. Determine the most cost effective air sealing guidelines and minimum ventilation requirements for occupants health and safety. Understand the principles of the blower door test. An energy audit is the first step to increasing energy efficiency. Once energy use is assessed then improvements to increase efficiency, lower bills and enhance health and comfort levels. Required Text: Insulate and Weatherize, by Bruce Harley, Available at the BCC Bookstore.
Instructor: Klas Haglid, PE, R.A., Haglid Engineering

CD 523 Photovoltaic System Design and Installation (Solar Panel Array)
10 sessions; 30 hours; $350
001, Sat; October 3-December 12, 2015
(no class 10/31, 11/28)
Hours: 9:00 a.m.-12:00 p.m.; Field Trip on weekday, 9:00-11:00 a.m.
Location: Paramus Campus

This introductory course teaches the technology and skills required for the design, installation and performance testing of residential and commercial solar systems. Emphasis is placed on understanding the basics of system function, components and design. Learn about PV System maintenance and monitoring issues. Federal, State and Utilities incentives will be discussed. This course offers outdoor hands-on skill labs and Field Trip. Course attendees provide own transportation.
Instructor: Kris Pamidi, Certified Solar PV Professional

CD 058 Ten-hr. OSHA Construction Industry Safety Certification
3 sessions; 10 hours; $199
001, T/W/Th; September 8, 9 & 10, 2015
Hours: 6:00 a.m.-9:30 p.m.
Location: Paramus Campus
002X, Sat; November 7 & 14, 2015
Hours: 8:30 a.m.-2:30 p.m.
Location: Englewood, NJ

This 10-hour course is designed for construction workers as an ideal orientation to those who are new to construction sites, maintenance workers and others, those associated with construction projects and as a reminder those working in a variety of building related industries about the hazards associated with the construction industry. Upon successful course completion a $5.00 fee is due is due to the instructor to receive the 10 Hour Construction Safety/OSHA Certification Card.
Instructor: Al Lundgren, OSHA Construction Outreach Trainer

CD 116 Energy and Sustainability for the Built Environment
8 sessions; 16 hours; $259
Broad overview of fundamental and applied concepts of energy in the overall context of the modern and built environment. Includes mechanical and electrical fundamentals to analyze the built environment, energy flows and balances, demand and supply solutions, tools such as life cycle analysis for assessment/evaluation, and emerging issues in the built environment. Course includes design problems and case studies. A detailed example of Weather Bin Modeling along with a financial analysis will be presented with student participating in making a working energy savings model as a final class project, general approach and weather data will be provided.
Instructor: Klas Haglid, PE, R.A., Haglid Engineering

CD 513 Customer Service, & Sales in Energy Sector Careers
10 sessions; 20 hours; $259
Gain a new competitive advantage selling green. Identify tax rebates, financial incentives and make customer service complete by assisting with preparing rebates and filing forms. Environmental programs can have positive effects on increased sales and profitability. Customers want to know they’re supporting a sustainable, responsible company whose values align with theirs. Training sessions are provided to improve communication and work preparedness skills.
Instructor: Tracey Miceli, Retail Specialist

CD 518 Green Advantage® Test Prep
4 sessions; 10 hours; $199
This class is designed to prepare you to take the Green Advantage Exam, Commercial or Residential series and will assist you in gaining a deeper understanding of the concepts of Green Building. Learn the fundamentals of green construction practices, green rating systems like LEED, Green Globes, NAHB and get practical information on engaging in environmentally sustainable practices. The test fee of $175 is additional and students must register online at Green Advantage®.org.
Instructor: Roseanne Crisafi, LEED GA, Green Advantage Certified

CD 518 Green Advantage® Test Offered
Test session; 2 hours; $199
Students wishing to take this exam must register directly with Green Advantage and select Bergen Community College as your testing center, two forms of ID are required to sit for the test, one must be a photo State ID. For assistance registering for this exam visit the Green Advantage website at http://www.greenadvantage.org/ or contact Roseanne Crisafi, (201) 447-7488.

CD 581 Environmental Testing
5 sessions; 12 hours; $229
Hours: 6:30-9:00 p.m.
Location: TBA
In order to be able to manage environmental contaminants, you must first be able to measure them and understand what the results mean. Environmental testing techniques have been developed to help scientists, engineers and decision makers assess environmental risk and take steps to assure the safety of people and the ecosystem. Take this course and learn about environmental testing procedures and how these techniques can help us protect people and the environment.
Instructor: Craig Doolittle, PE, TRC Solutions

To register, call: (201) 447-7488 • www.bergen.edu/continuinged | FALL 2015 42