

Courses

| College Name | Educational Program | Course Description | Degree or Certification | Active Enrollment |
|--------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------|
| University of Connecticut and State Universities | | | | |
| University of Connecticut | Environment Engineering Minor | Environmentally sound manufacturing process and sustainable development | Undergraduate | Yes |
| University of Connecticut | Environmental Economics and Policy Minor | Overview of key concepts and methods used by economics to analyze problems associated with human use and misuse of natural resources and the environment and to evaluate policy options for better management of these resources for current and future generations | Undergraduate | Yes |
| University of Connecticut | Environmental Engineering | Understanding the impact of human activity and pollutants on the environment as well as the need for sustainable manufacturing processes and sustainable development. | Undergraduate and Graduate | Yes |
| University of Connecticut | Electrical Engineering | Electrical engineering program | Undergraduate and Graduate | Yes |
| University of Connecticut | Civil Engineering | Civil engineering program | Undergraduate and Graduate | Yes |
| University of Connecticut | Natural Resources | Apply modern technology, concepts and principles dealing with sustainable development | Undergraduate and Graduate | Yes |
| University of Connecticut | Natural Resources Management and Engineering | Prepares students to manage and conserve the environment | Undergraduate and Graduate | Yes |
| University of Connecticut | Introduction to Power systems | Students learn Fundamentals of power system planning, operation, and management. Power generation, transmission and distribution. Sustainable energy sources such as photovoltaic, solar-thermal power, wind farms, and their grid integration. Modern power system monitoring/control, fault analysis, and transient stability analysis using computer tools. | Undergraduate | Yes |

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| University of Connecticut | Sustainable Energy Sources and Systems | Topics include current energy sources and usage, environmental pollution from use of fossil fuels, nuclear energy, biomass energy, geothermal energy resources and usage, hydroelectric, solar, wind and tidal energy conversion principles, hydrogen generation and usage in electrochemical devices, energy economics and effects of energy pricing on economically viable energy options. | Undergraduate | Yes |
| University of Connecticut | Materials for Alternative, Renewable Energy | Overview of energy conversion and storage systems - centralized and distributed generation to stationary and motive batteries; efficiency calculation and thermodynamics; electrochemistry - primary and secondary batteries; fuels - chemistry, processing, impurities; combustion, gasification and electrochemical systems; materials requirements; bulk and surface properties; metals, ceramics and superalloys; gas - metal interactions; gas - liquid - metal interactions; development trend - alloying principles, coatings, claddings; alloy processing and coating techniques. | Undergraduate | Yes |
| University of Connecticut | Energy Economics | Economics of energy issues with special reference to impacts on local, regional, and global environmental quality, energy markets and regulatory policies. Environmental and economic implications of developing alternative sources of energy. Conservation policies in relation to transportation, industry, and residential energy use. | Undergraduate | Yes |
| University of Connecticut | Living in an Engineered World | A survey course that provides students an insight into the technical world around them. As a society in the 21st Century, we will be faced with a rapidly changing world influenced greatly by the advances in technology, the history of technological changes and the continued need for conservation of energy and sustainability. | Undergraduate | Yes |

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| University of Connecticut | Materials for advanced fossil fuel systems | Will familiarize students with the state of the art in fossil fuel power generation technologies ranging from conventional combustion to emerging technologies such as oxyfuel combustion; integrated coal gasification (IGCC) and fuel cell (IGFC) systems; and CO2 separation and sequestration. | Undergraduate | Yes |
| University of Connecticut | Materials for Alternative, Renewable Energy | Overview of energy conversion and storage systems - centralized and distributed generation to stationary and motive batteries; efficiency calculation and thermodynamics; electrochemistry - primary and secondary batteries; fuels - chemistry, processing, impurities; combustion, gasification and electrochemical systems; materials requirements; bulk and surface properties; metals, ceramics and superalloys; gas - metal interactions; gas - liquid - metal interactions; development trend - alloying principles, coatings, claddings; alloy processing and coating techniques. | Undergraduate | Yes |
| University of Connecticut | Fuel Cell | Advanced course on fuel cells as an alternative energy conversion technology. Subjects covered include: thermodynamics and electrochemistry of fuel cells, operating principles, types of fuel cells, overview of intermediate/high temperature fuel cells, polymer electrolyte fuel cells and direct methanol fuel cells | Undergraduate | Yes |
| University of Connecticut | Energy, Environment, and Society | Sociological perspectives on energy production, distribution and consumption, environment and social organization. | Undergraduate | Yes |
| Central Connecticut State University | Biology: Specialization in Environmental Science | Prepares students for careers in environmental science and natural resources management | Undergraduate | Yes |
| Central Connecticut State University | Construction Management | Focuses on field operations, estimating and project management processes. | Undergraduate and Graduate | Yes |

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| Central Connecticut State University | Heating, Ventilation and Air Conditioning System Design | Analysis and design of heating, ventilating, air conditioning and refrigerating systems (HVAC) for buildings and industrial applications, including equipment and component selection. Energy-efficient concepts and controls will be emphasized. | Undergraduate | Yes |
| Central Connecticut State University | Introduction to Technology Management | Current trends in technology management including innovation, technology systems, sustainable energy, materials, and historical perspectives. | Undergraduate | Yes |
| Central Connecticut State University | Energy Conversion Systems | Design of energy producing systems utilizing combustible fuels and renewable sources; solar, wind, tidal, geothermal, fuel cells, nuclear. Study of energy demand and available resources and distribution in the world. Energy storage; distribution, conservation, and environmental impacts. | Undergraduate | Yes |
| Central Connecticut State University | Mechanical technology | Students work on industrial equipment including electrical generators, internal combustion engines, steam and gas turbines, refrigeration and air-conditioning equipment | Undergraduate | Yes |
| Eastern Connecticut State University | Certificate in Energy Management and Policy | Focus on environmental issues, environmental management and environmental policy. | Certificate | Yes |
| Eastern Connecticut State University | Sustainable Energy Laboratory | An experiential introduction to energy and society issues through laboratory study of climate change, energy efficiency, and renewable energy systems. | Undergraduate | Yes |
| Eastern Connecticut State University | Energy and Development | An eight to twelve day field experience in a developing country. An intensive study, including interviews and site visits, of the role that sustainable energy systems play in sustainable development in a developing country. | Undergraduate | Yes |

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| Eastern Connecticut State University | Sustainable Buildings | Energy consumption for heating, cooling, lighting, and appliances in conventional buildings and strategies for reducing energy consumption and carbon emission. LEED and other green building design. Renewable energy systems, including the design of solar thermal, solar electric, wind and hydroelectric power systems for buildings. | Undergraduate | Yes |
| Eastern Connecticut State University | Energy Resources and Conservation | Fossil fuel resources and the environmental impact of fossil fuel consumption. Renewable energy recourse and the feasibility of transitioning from fossil fuel to renewable energy to generate electricity and to power transportation. Topics include: electricity generation, clean coal, peak oil, shale gas, tar sands, nuclear power, concentrating solar power, solar electric power, hydroelectricity, wind energy, ocean energy, geothermal energy, electric vehicles, fuel cells, biomass and biofuels. | Undergraduate | Yes |
| Eastern Connecticut State University | Sustainable Energy | This course will evaluate the environmental impacts of power generation based on fossil fuels and nuclear fission and will describe alternatives to these technologies, including conservation, mass transit, electric and hybrid electric vehicles, passive solar energy, solar thermal systems, photovoltaic power systems, hydroelectric power, wind energy, tidal power, ocean thermal energy, biomass, fuel cells, hydrogen fuel systems, and nuclear fusion. The course will evaluate the environmental, economic, and social issues related to the transition to sustainable energy systems. | Undergraduate | Yes |
| Eastern Connecticut State University | Environmental Earth Science, minor in Sustainable Energy Studies | Introduce students to sustainable energies and insure students understand social and economic implication of energy technology and energy policy. | Undergraduate | Yes |
| Southern Connecticut State University | Environmental Studies Minor | Interdisciplinary program including land use planning, pollution prevention and controls, societal, political and economic pressures on the environment | Undergraduate | Yes |

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| Western Connecticut State University | Energy | This course will investigate present and possible future energy sources, and discuss man's use and misuse of the different forms of energy and the effects of these energy uses on society. | Undergraduate | Yes |
| Community College Programs | | | | |
| Gateway Community College | Alternate Fuel Vehicle | Preparation and conversion of vehicles to run on natural gas. | Credit Bearing | As required |
| Gateway Community College | Solar Energy Programs | Students learn solar PV and solar thermal including North American Board of Certified Practitioner standards | Credit bearing | As required |
| Gateway Community College | Center for a Sustainable Future | Courses in solar PV, solar thermal, geothermal heating and cooling. | NABCEP Entry-level Exam | As required |
| Gateway Community College | Environmental Engineering | Introduction to alternative energy system | Credit Bearing | As required |
| Gateway Community College | Electrical | Electrical engineering Technology | Credit | Yes |
| Manchester Community College | Environmental Science | Sustainable energy and the environment | Credit Bearing | As required |
| Manchester Community College | Sustainable Energy | Sustainable energy program | Certificate | As required |
| Naugatuck Valley Community College | Fuel Cell | Fuel cell certificate program | Certificate | As required |
| Norwalk Community College | Construction Technology | Students learn building efficiency auditing | Credit Bearing | As required |
| Norwalk Community College | Professional Development | Energy savings | No credit | As required |
| Norwalk Community College | Professional Development | Students learn building efficiency auditing | No credit | As required |
| Norwalk Community College | Building Efficiency | Building efficiency and sustainable technology program (BEST) | Certificate | As required |
| Quinebaug Valley Community College | Recreation | Home Energy savings | No credit | As required |
| Quinebaug Valley Community College | Construction Technology | Construction | Certificate | As required |

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| Three Rivers Community College | Sustainable Facilities Management | Sustainable Facilities Management | Certificate | As required |
| Three Rivers Community College | Electrical | Electrical engineering technology | Credit | Yes |
| Northwestern Community College | Electric Power Pathway | The Electrical Power Technology Pathway is articulated with Bismarck State College (BSC) and provides access for individuals interested in career pathways into the transmission and distribution sectors of the energy industry, by offering online Electric Power Technology classes to students enrolled in the Connecticut Community College System (CCCS). | Associate | As required |
| Northwestern Community College | Industrial Technology | The Technology Studies – Industrial Technology Option associate degree program prepares students primarily to transfer to complete a B.S. degree in civil, mechanical, manufacturing, composite, or computer engineering technology. Graduates will receive a background in mathematics, science, and general education courses for transfer into a four-year program. Careers in this field include jobs in industrial design, occupational health and safety, sustainable energy generation/transmission, lean manufacturing analysis, and laser technicians. | Associate | As required |
| Private Universities | | | | |
| Yale University | Chemical Engineering | Courses include Green Chemistry | Undergraduate | Yes |
| Yale University | Green Business Operations | Course in business | Undergraduate | Yes |

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| Yale University | Electric Utilities: An Industry in Transition | Students explore technological innovations, improving economics, and regulatory incentives provide a transformational opportunity to implement demand-side resources and distributed energy technologies that will both lower emissions and improve service to customers. Such significant changes could, however, disrupt existing utility business models and therefore may not be fully supported by incumbent utilities. This course focuses on the issues, challenges, risks, and trade-offs associated with moving the U.S. utility industry toward a cleaner, more sustainable energy future. We explore how utilities are regulated and how economic factors and regulatory policies influence outcomes and opportunities to align customer, environmental, and utility shareholder interests to craft win-win-win solutions. | Undergraduate | Yes |
| Yale University | Sustainability: Environment, Energy, and the Economy in the Twenty-First Century | This course explores the interlocking set of challenges that stem from society's desire for low-cost, clean energy that can support a vibrant economy and the simultaneous need to reduce pollution, address climate change, conserve natural resources, and address the other negative impacts of industrialization and economic growth. The seminar reviews the data and analysis that flow from the Earth's recent economic growth trajectory—and the origins of sustainability thinking from Aldo Leopold to Rachel Carson to Gro Harlem Brundtland. It then unpacks the ecological, political, economic, legal, institutional, and historical elements of sustainability as an overarching concept that might provide an alternative path forward. | Undergraduate | Yes |
| Yale University | Energy Economics and Policy Analysis | This course examines energy policy issues that pertain to the environment, with a focus on providing tools for analyzing these issues. A primary objective is to apply economics to particular issues of energy markets, environmental impacts, investment in renewables, and other energy issues such as transportation and energy efficiency. We cover the economic and technical considerations behind a particular energy policy issue and then discuss a related article or case study. | Undergraduate | Yes |

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| Yale University | Renewable Energy | Introduction to renewable energy, including physical principles, existing and emerging technologies, and interaction with the environment. Energy demand; transmission and storage; generation by hydroelectric, wind, solar, biofuel, and geothermal sources, as well as waves and tidal generation. Includes field trips to conventional, hydroelectric, and wind power facilities in Connecticut. | Undergraduate | Yes |
| Yale University | Engines, Energy and Environment | Energy sustainability and global warming; thermodynamic fundamentals; engines (combustion technologies, fossil-fuel pollution, carbon capture and sequestration). Wind, solar, biomass, and other renewable energy sources. Designed for freshmen and sophomores in science and engineering and for non-science majors. | Undergraduate | Yes |
| Yale University | Photovoltaic Energy | Survey of photovoltaic energy devices, systems, and applications, including review of optical and electrical properties of semiconductors. Topics include solar radiation, solar cell design, performance analysis, solar cell materials, device processing, photovoltaic systems, and economic analysis. | Undergraduate | Yes |
| Yale University | Green Engineering and Sustainable Design | Study of green engineering, focusing on key approaches to advancing sustainability through engineering design. Topics include current design, manufacturing, and disposal processes; toxicity and benign alternatives; policy implications; pollution prevention and source reduction; separations and disassembly; material and energy efficiencies and flows; systems analysis; biomimicry; and life cycle design, management, and analysis. | Undergraduate | Yes |
| Yale University | Electrical Engineering | Electrical engineering in energy and power generation. | Undergraduate and Graduate | Yes |
| Yale University | Environmental Studies | Studies in environmental teaching, writing, resource management and conservation. | Undergraduate and Graduate | Yes |
| Yale University | Environmental Engineering | Students work on problems related to improving environmental conditions including reduction of indoor and outdoor pollution. | Undergraduate and Graduate | Yes |

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| Yale University | Masters of Environmental Management | Students pursue careers in environmental policy and analysis, stewardship, education, consulting or management. | Graduate | Yes |
| Yale University | Masters of Business Administration and Masters of Environmental Management | Students learn an understanding that business success depends on integrating environmental cost and benefits into long-term planning. | Graduate | Yes |
| Yale University | Master of Architecture and Environmental Management | Students incorporate sustainable design and development at an urban to regional scale. | Graduate | Yes |
| Yale University | Master of Environmental Management | Students pursue careers in environmental policy, analysis, stewardship, education, consulting and management. | Graduate | Yes |
| Trinity College | Civil Engineering | | Undergraduate and Graduate | Yes |
| Trinity College | Issues in Environmental and Energy Economics | The economic analysis of selected environmental and energy issues such as current air pollution control policies and water pollution control policies, recycling strategies, conservation, the development of new energy sources, such as solar energy and wind power, and the environmental consequences of different energy types. | Undergraduate | Yes |
| Trinity College | Environmental Science | Students learn energy and environmental programs facing the current and future populations | Undergraduate | Yes |

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| Trinity College | Sustainable Urban Environment | This course introduces students to urban studies which deals with sustainable development, including exploration of the debates on the meanings of sustainability and development in cities. Taking a comparative approach and a global perspective, topics to be examined may include the ecological footprint of cities, urban programs for sustainable urban planning, urban transportation and service delivery, energy issues, and the critical geopolitics of urban sustainability around the world. | Undergraduate | Yes |
| Trinity College | The Science and Policies of Energy and Sustainability | This course will study the fundamental science of energy and its usage, and the environmental, economic, and societal impacts of coal, petroleum, natural gas, waste combustion, biomass, hydrogen, nuclear fission, nuclear fusion, solar, hydroelectric, wind, and geothermal power. | Undergraduate | Yes |
| University of New Haven | Civil Engineering | Students learn challenges related to energy needs, urban redevelopment and community planning | Undergraduate | |
| University of New Haven | Introduction to Traditional and Alternative Energy | An introduction to the technical and economic fundamentals of traditional and alternative energy systems. Course introduces the processes and components of energy generation and conversion systems including fuel cells, passive solar heating, fossil fuel and nuclear energy plants, cogeneration, and others Exploration of the conservation principle as applied to these systems including the comparison of fossil fuel and biofuel energy intensities, steady-state analysis of energy transfer in a solar heater, and power losses in simple circuits. Comparative economics analysis based upon operating costs and profiles, as well as capital investment considerations for various technologies. | Undergraduate | Yes |

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| University of New Haven | Thermal Physics | Basic thermodynamics and its applications. Major emphasis on the efficiency of energy conversion and utilization. Topics include the laws of thermodynamics, entropy, efficiency of heat engines, solar energy, the energy balance of the earth, energy systems of the future, economics of energy use | Undergraduate | Yes |
| University of New Haven | Introduction to Energy Efficiency | Analysis of selected engineering systems with a focus on improvements in electrical/thermal efficiency. Thermal and electrical power management and conservation in buildings with specific focus on HVAC system efficiency, energy efficient technologies (electrical motors, lighting, heat pumps). Energy audits, power management and cogeneration are discussed | Undergraduate | Yes |
| University of New Haven | Solar Energy | Introduction to the fundamentals of solar energy thermal processes including solar radiation, flat plate and focusing collectors, energy storage, hot water heating, cooling and auxiliary system components. Emphasis on the design and evaluation of systems as they pertain to commercial and residential buildings | Undergraduate | Yes |
| University of New Haven | Electrical Power Systems | Changing power systems landscape, electric energy sources including renewable and various distributed generation (DG), environmental consequences of the electrical energy, AC transmission lines and cables, power flow in transmission networks, loadability of transmission lines, transformers, High Voltage DC (HVDC) transmission lines, power electronics devices and their applications, power quality and power factor, synchronous generators, voltage regulation and stability, peak load issues, ways to prevent voltage collapses, dynamic stability, automatic generation control (AGC). | Undergraduate | Yes |

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| University of New Haven | Fundamental of Renewable Energy Systems | A study of the technology and engineering design issues of renewable energy systems (solar, wind, geothermal, tidal); availability of renewable resources and assessment of generation capacity. Topics include active and passive solar methods tied to HVAC systems; solar, thermal, and electric power generation alternatives; wind and tidal power engineering; and current waste to energy systems | Undergraduate | Yes |
| University of New Haven | Energy: Present and Future | Explores the nature, role, and economic impact of energy in our society. Topics include the nature and growth of energy consumption, physical limits to energy production and consumption, environmental effects, and comparisons of energy alternatives. Special emphasis on the technical, environmental, and economic aspects of nuclear power as well as energy sources of the future such as fast-breeder reactors, fusion, solar, and geothermal power. | Undergraduate | Yes |
| University of New Haven | Solar Energy | Introduction to the fundamentals of solar energy thermal processes including solar radiation, flat plate and focusing collectors, energy storage, hot water heating, cooling and auxiliary system components. Emphasis on the design and evaluation of systems as they pertain to commercial and residential buildings. | Undergraduate | Yes |
| University of New Haven | Fundamentals of Renewable Energy Systems | A study of the technology and engineering design issues of renewable energy systems (solar, wind, geothermal, tidal); availability of renewable resources and assessment of generation capacity. Topics include active and passive solar methods tied to HVAC systems; solar, thermal, and electric power generation alternatives; wind and tidal power engineering; and current waste to energy systems. | Undergraduate | Yes |
| University of New Haven | Electrical Engineering | Electrical engineering concerned with analysis, design, development and operation of electrical and electronic system. | Undergraduate and Graduate | Yes |

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| Connecticut College | Energy and the Environment | An introduction to the physics of energy and the laws of thermodynamics as applied to environmental issues. Emphasis on processes for producing electrical energy. | Undergraduate | Yes |
| Connecticut College | Sustainable Architecture | An introduction to the principles and practice of sustainable architecture. Course topics include vernacular adaptations to climate and available resources, the evolution of sustainable design and technology since the mid-twentieth century, current trends and new technology, ethical choices and dilemmas inherent in the building process, and impacts of government policies and regulations. | Undergraduate | Yes |
| Wesleyan University | Environment Studies | Environmental studies related to creation of a sustainable economy, resource efficiency and responsible environmental policies. | Undergraduate | Yes |
| University of Bridgeport | Interior Design | Plumbing, heating, ventilating, air conditioning, acoustics and solar energy will be examined. | Undergraduate | Yes |
| University of Bridgeport | Electrical Engineering/Energy Conservation | Students comprehend the engineering fundamentals of various types of fuel/photovoltaic cell systems, system design and integration issues, and system evaluation and economic analysis. | Undergraduate | Yes |
| University of Bridgeport | Solar Energy/Solar Cells | This course offers a review of renew-able energy (solar, winds, and tides) versus bio-energy (coal, oil, natural gas). | Undergraduate | Yes |
| University of Bridgeport | Foundations of Environmental and Energy Management | Alternative energy sources are reviewed, including examination of energy technologies in each fuel cycle stage for fossil (oil, gas, synthetic), solar, biomass, wind, hydro, nuclear, and geothermal energy types, along with storage, transmission, and conservation issues. | Graduate | Yes |
| University of Bridgeport | Alternative Energy technologies | This is a graduate level course and aims to introduce the alternative energy technologies in photovoltaic cells (PV) and fuel cells. | Graduate | Yes |

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| University of Bridgeport | Sustainable Development | The course will examine the critical relationship between oil supply and demand and environmental challenges and the international priorities and policy initiatives of modern states. | Graduate | Yes |
| University of Bridgeport | Economic, Regulatory, Cultural, and Societal Issues in Environment and Energy Management | The course will focus on a review of the environmental and energy management safety, hazard identification and disaster prevention policies, laws, concepts and issues. U.S. and international laws, regulations and standards will also be covered. | Graduate | Yes |
| University of Bridgeport | Electrical Engineering | Electrical engineering degree | Undergraduate and Graduate | Yes |
| Fairfield University | Electrical | Electrical engineering program | Undergraduate | Yes |
| Fairfield University | Energy Conservation | This course covers the major topics in energy conversion, including fuels used in energy conversion; solar energy; gas turbine engines and applications; internal combustion engines; heat pumps; classic and novel power and refrigeration cycles; system analysis; system economics; and environmental considerations. The course includes computer simulation of power plant performance to optimize energy conversion efficiency. | Graduate | Yes |
| Fairfield University | Green Power Generation | This course compares various methods of green power generation including solar power, wind power, water power, and several others. This course covers how power is generated from these sources, the startup costs, the efficiency, and the practicality. These methods are compared to the present most common method of using oil and gas to heat water into steam to turn turbines. | Undergraduate | Yes |

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| Fairfield University | Energy and the Environment | This course introduces students not majoring in the natural sciences to topics relating to work, energy, and power, and explores many of the environmental consequences resulting from our use of energy. The course examines the finite nature of fossil fuels as well as many alternative energy sources including solar energy; wind, tidal, and geothermal energy; nuclear fission; and nuclear fusion | Undergraduate | Yes |
| University of Hartford | Solar Energy Design | Evaluation and design of solar thermal processes and equipment; availability of solar radiation, flat plate, and focusing collectors, and energy storage systems are treated | Undergraduate | Yes |
| University of Hartford | Energy Conversion System Design | Introduction to methods of energy conversion, including both conventional and renewable methods of energy generation. These include, but are not limited to, cogeneration, nuclear, solar, wind, and fuel cells. Each consists of a review of the basic engineering principles of design and operational configurations | Undergraduate | Yes |
| University of Hartford | Heating, Air Conditioning and refrigeration | Thermodynamic principles of refrigeration; refrigerants; psychometrics; air-conditioning processes; physiological considerations of thermal comfort, calculation of heating, cooling loads of structures; analysis and sizing of thermal and energy distribution systems; indoor noise control; energy calculations; special design project requiring written term paper and oral presentation. | Undergraduate | Yes |
| University of Hartford | Electrical Engineering Degree | Electrical Engineering degree program | Undergraduate and Graduate | Yes |
| University of Hartford | Architectural Design | An advanced architectural design studio with an emphasis on the principles and practices of sustainable design, including LEED criteria and process. | Undergraduate | Yes |
| University of Hartford | Sustainable Design | This course presents sustainable design and construction goals, processes, and strategies with a focus on larger commercial and institutional buildings. | Undergraduate | Yes |
| Rensselaer | Energy Systems | Global energy systems | Graduate | Yes |
| Rensselaer | Energy Systems | Clean Energy Management | Graduate | Yes |
| Rensselaer | Energy | Energy Engineering | Graduate | Yes |

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| Rensselaer | Electrical | Electrical engineering program | Graduate | Yes |
| Coast Guard Academy | Electrical | Electrical engineering program | Undergraduate | Yes |
| Connecticut Technical High School | | | | |
| Connecticut Technical High School | Marketing Management and Entrepreneurship | Marketing and Entrepreneurship | High School | Yes |
| Connecticut Technical High School | Environmental Science | Training in scientific instrumentation, operating in the field and OSHA compliance | High School | Yes |
| Connecticut Technical High School | E-House Green Technology | High school training in building alternative energy homes | High School | Yes |
| Connecticut Technical High School | Electronics Technology | High school education in electronic equipment | High School | Yes |
| Connecticut Technical High School | Electrical | High school education for electrical apprenticeship careers | High School | Yes |
| Connecticut Technical High School | Heating, Ventilation and Air Conditioning | High school education for HVAC apprenticeships | High School | Yes |
| Connecticut Technical High School | Manufacturing Technology Plumbing and Heating (Solar Strand) | High school education for manufacturing | High School | Yes |
| Connecticut Technical High School | Electrical Engineering and Electronic Technology | High school educations for electronics | High School | Yes |
| Connecticut Technical High School | Welding and Metal Fabrication | High school education for welding and metal fabrication | High School | Yes |
| Union Training | | | | |
| IBEW | Electrical programs | Wiring solar panels, wind turbines and biofuel plant apprenticeship | Apprenticeships | Yes |

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| Local 777 | Local 777 Veterans Training School Plumbers and Pipefitters | Plumbing and Pipefitting | Apprenticeships | Yes |
| Apprenticeship Training Center | Green Tradesman Certificate | Carpenters, Iron Workers, Finishing, Bricklayers, Sheet Metal workers, electricians, and Plumbers | Apprenticeships | Yes |
| Apprenticeship Training Center | Green Tradesman Training | Painters and Allied Trades | Apprenticeships | Yes |
| IBEW | Solar Voltaic | Local 488 Electricians | Apprenticeships | Yes |
| Private Company Training | | | | |
| Everblue Training Institute | LEED Project 101:Implementation and Documentation | Teaches students all phases of LEEP project work from initial registration to final LEED certification | Certificate | As required |
| Everblue Training Institute | LEED Home Rating System Review | One day course for LEED credits, financial incentives and green home opportunities | Certificate | As required |
| Everblue Training Institute | Introducing LEED, the USGBC and the GBCI | Students learn US Green Building Council, the Green Building Certification and Led Certification. | Certificate | As required |
| Connecticut Center for Advanced Technology | Energy and Sustainability | Energy and sustainability program for middle and high school teachers | | As required |
| Connecticut Center for Advanced Technology | Catalyst | Exploration in sustainable energy and the environment (High School enrichment program) | | As required |
| Center for Occupational Development and Education | Continuing Training | CODE is the plumbers' industry school organized to provide the mandatory Continued Education for Plumbing License Holders. | Continuing training hours | Yes |
| Construction Education Center, Inc. | Continuing Training | Provides educational training for apprentices, journeypersons, and supervisors of construction companies. Green building fundamentals. | Continuing training hours | Yes |
| Heatspring Learning Institute | Solar, geothermal, green house and energy efficiency | Our online classroom & curriculum-building software for expert-led online training. | Continuing training hours and exam preparation | Yes |

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| Independent Connecticut Petroleum Institute | N/A | Independent Connecticut Petroleum Association Education Foundation is a nonprofit corporation that benefits educational institutions and related activities, focusing specifically on adult, continuing education programs. | Continuing training hours | Yes |
| Independent Connecticut Petroleum Institute | Solar Thermal | Solar thermal training (ENTECH) | Continuing training hours | Yes |
| Independent Connecticut Petroleum Institute | Electricity | Basic electricity program | Continuing training hours | Yes |
| ENTECH | HVACR, Propane, BPI | Entech Advanced Energy Training is a state-certified, private, non-profit, technical school affiliated with CEMA (Connecticut Energy Marketers Association). Programs include HVACR, Propane, CDL Driving and BPI Building Analysis training. | Certificate | Yes |
| Independent Electrical Contractors of New England | Electrical Training | Continuing training for electricians | Apprenticeships | Yes |
| Industrial Management and Training Institute | Solar, HVAC, Electrical, Electronic System, and Plumbing | IMTI has been successfully training electricians, plumbers, and HVAC technicians in current technologies and career-oriented job skills. Curriculum for all IMTI programs focuses on classroom study and practical hands-on industry skill training. Solar system technician and installer | Credit bearing, certification and continuing training | Yes |

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| Institute of Environmental Management Technology | BPI, Weatherization and OSHA classes | The Institute of Environmental Management and Technology, Inc. (IEMT) is an approved Building Performance Institute Test Center. We offer BPI Building Analyst, Envelope Professional, proctor exams, and a wide range of other courses approved for BPI Continuing Education Units. We have alternative energy, infrared thermography and weatherization classes along with training in lead and asbestos remediation. IEMT also has OSHA authorized instructors for the 10 and 30 Hour Construction and General Industry Outreach Programs and teaches the 40 hour Hazwoper class. | Certifications | As required |
| Porter and Chester | Electrician Certificate | Our electrician program will help you take the first steps toward becoming an electrician. Provides student with a foundation of basic electrical theory and the technical skills you'll need to work in residential, commercial and industry settings. | Certificate | Yes |
| Porter and Chester | Electronic Certificate | Students acquire the skills needed to install, maintain and troubleshoot a whole range of the low voltage systems used in homes, businesses, hospitals and corporations all across the country. | Certificate | Yes |
| Porter and Chester | HVCR Certificate | Students acquire skills in heating, ventilation, air conditioning and refrigeration to install, maintain and troubleshoot HVACR units in residential, commercial and industrial settings. | Certificate | Yes |
| Connecticut Business and Industry Association | Academic Enhancement | High school enrichment and teacher educational programs | High School | As required |
| Baran Institute of Technology | Electrician Certificate | Introduces students to electrical application, skills and theory. Graduates are entry level apprentices | Certificate | As required |
| Baran Institute of Technology | HVAC/R Technology program | Electrical, plumbing and trouble shooting commercial and domestic heating and refrigeration/cooling units | Certificate | As required |
| Lincoln Technical Institute | Energy Technology | Electrical and renewable energy technology | Certificate | Yes |
| Workforce Board Training Programs | | | | |

Courses

| College Name | Educational Program | Course Description | Degree or Certification | Active Enrollment |
|-----------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------|
| Eastern Connecticut Workforce Board | Green Jobs | Green job incumbent worker training | Certificate and continuing training | As required |
| Northwestern Regional Workforce Investment Board | Building Performance | Building performance institute training | Certificate and continuing training | As required |
| Capital Workforce Partners | Green Jobs | Multiple funnel sessions for green jobs including welding and gas installation | Certificate and continuing training | As required |
| City of New Haven Construction Workforce Initiative | Construction Skills | Basic construction skill education | Certificate and continuing training | As required |
| The Workplace, Inc. | Green-up Bridgeport | Brownfield clean-up | Certificate and continuing training | As required |
| The Workplace, Inc. | Weatherization Training Program | The Weatherization Training Program provides career counseling and training in basic weatherization installer, energy auditor, envelope professional and advanced Building Performance Institute certified courses including multi-family. | Certificate and continuing training | As required |
| The Workplace, Inc. | Building Efficiency | “Green Jobs”, those focused on energy efficiency and renewable energy, include weatherization, energy audits, Smart Grid | Certificate and continuing training | As required |
| Connecticut Department of Labor | Apprenticeships | | Apprenticeships | Yes |
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