

[GREEN JOB PROGRAMS AT CLC]

Division	Program	Cert/Degree	Hours	Green Job Program?*	Description
Engineering, Math and Physical Science	Architectural Technology	<b>Associate in Applied Science Plan 24CB</b>	62	Part of program related to environmental-sustainability issues	This program prepares graduates to assume a variety of duties in the architectural profession including drawing construction working drawings, design development drawings, renderings, cost estimating, specification writing, structural design and detailing, construction supervision, sales of materials and equipment, facilities engineering, building inspection and other building and zoning work. Graduates may be employed with architects, engineers, contractors, government agencies or others in the industry.
		<b>Certificate Plan 24CF</b>	34	Part of program related to environmental-sustainability issues	
	Civil & Environmental Technology	<b>Associate in Applied Science Plan 24VA</b>	65-67	Part of program related to environmental-sustainability issues	This program prepares students to work as entry-level technicians in the civil/environmental technology industry. Job opportunities include technician-level positions in surveying, construction inspection and testing, site layout design and drafting, water/wastewater plant operators, and environmental site assessment. Employers include municipalities, water/wastewater treatment agencies, private civil/surveying firms, heavy construction material suppliers, and construction firms.
	Construction Management Technology	<b>Associate in Applied Science Plan 24BA</b>	63-67	Part of program related to environmental-sustainability issues	This program prepares students to work as entry-level construction management technicians in the construction industry. This degree is particularly well-suited for students with field experience in construction trades who desire a more management-oriented position. Job opportunities include positions in estimating, supervision, scheduling, procurement, inspection and testing, site layout design and drafting. Employers include construction firms, suppliers, architects, material testing and inspection companies, and department of public works. Graduate may also transfer many of the program's credits toward a B.S. in Construction Management from area schools.
		<b>Certificate Plan 24BF</b>	23-25	Part of program related to environmental-sustainability issues	This certificate is intended for students desiring to focus on a career in construction management or supervision, and who may already have work experience in the construction field. Courses include the core courses from the AAS degree program that are most closely linked to immediate employment opportunities. Job opportunities include estimating, scheduling, procurement, and field supervision. Other CMT courses may be substituted upon consultation with program advisor.

[GREEN JOB PROGRAMS AT CLC]

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	Electrical Engineering Technology	<b>Associate in Applied Science Plan 24ED</b>	71	Part of program related to environmental-sustainability issues	Students are prepared to work in research, instrumentation, design, field service, communication and service laboratories.
	Electronics Technology	<b>Certificate Plan 24EF</b>	35	Part of program related to environmental-sustainability issues	
	Electrical/Electronic Maintenance	<b>Certificate Plan 24EH</b>	30-32	Part of program related to environmental-sustainability issues	This program provides students with the skills necessary to perform trouble-shooting and maintenance procedures in industry. Students with experience in the field and demonstrating appropriate knowledge may be given advanced standing in the program.
	Electronics Systems Technology	<b>Associate in Applied Science Plan 24EL</b>	60	Part of program related to environmental-sustainability issues	This degree provides advanced knowledge to students who install, repair and maintain a wide range of electronic systems, including industrial control systems, radio and television communication systems, personal computer systems, and consumer audio and video home entertainment systems.
	Refrigeration & Air Conditioning			Part of program related to environmental-sustainability issues	The Refrigeration and Air Conditioning program provides instruction in air conditioning, heating, and refrigeration. Introductory courses in electricity, electric motors, and theory of refrigeration are included. Advanced work in the commercial area includes work on reach-in and walk-in units found in stores, dairies, and markets. Other areas of study include uses of air conditioning, temperature and humidity control, air circulation, cleaning, installation, and troubleshooting of equipment. Students are required to provide their own basic tools, and to take a national exit exam which will give passing students national recognition on an A.R.I. (Air Conditioning and Refrigeration Institute) National Registry, which goes to Refrigeration, Heating and Air Conditioning employers.
	HET Core	<b>Certificate Plan 24RZ</b>	21	Part of program related to environmental-sustainability issues	The HET Core Certificate provides students with the core requirements to succeed and advance in the HVACR workplace. Coursework introduces students to electrical troubleshooting, heat load calculations, and proper customer communications while providing them with the necessary knowledge required to successfully

[GREEN JOB PROGRAMS AT CLC]

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					compete in today's HVACR workplace. This certificate is a core component of each of the AAS degrees.
	Residential Heating Technician	<b>Certificate Plan 24RJ</b>	14	Part of program related to environmental-sustainability issues	The Residential Heating Technician Certificate program prepares students for employment as residential heating trainee. This certificate places a strong emphasis on operational characteristics of various types of residential heating equipment, its wiring, and safety procedures. Students learn to use refrigerants, gauges, and electrical test equipment in a residential setting. Students will be given a national exit exam after each advanced course which will provide passing students recognition on the Air Conditioning, Heating, and Refrigeration Institute (AHRI) national registry distributed to heating, air conditioning, ventilation, and refrigeration employers.
	Residential Air Conditioning Technician	<b>Certificate PI (Certificate)</b>	14	Part of program related to environmental-sustainability issues	The Residential Air Conditioning Technician Certificate program prepares students for employment as residential air conditioning trainee. This certificate places a strong emphasis on operational characteristics of various types of residential air conditioning equipment, its wiring, and safety procedures. Students learn to use refrigerants, gauges, and electrical test equipment in a residential setting. Students will be given a national exit exam after each advanced course which provides passing students recognition on the Air Conditioning, Heating, and Refrigeration Institute (AHRI) national registry distributed to heating, air conditioning, ventilation, and refrigeration employers.
	Commercial Refrigeration Technician	<b>Certificate Plan 24RK</b>	14	Part of program related to environmental-sustainability issues	The Commercial Refrigeration Technician Certificate program prepares students for employment as commercial refrigeration trainee. This certificate places a strong emphasis on the commercial refrigeration industry and emphasizes hands-on service and installation techniques, soldering and brazing, safety, and mechanical and electrical troubleshooting. Students learn to use refrigerants, gauges, and electrical test equipment in a commercial setting. Students will be given a national exit exam after each advanced course which provides passing students recognition on the Air Conditioning, Heating, and Refrigeration Institute (AHRI) national registry distributed to heating, air conditioning, ventilation, and refrigeration employers.
	Electrical	<b>Certificate</b>	14	Part of program	The Electrical Troubleshooting Technician Certificate program

[GREEN JOB PROGRAMS AT CLC]

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	Troubleshooting Technician	<b>Plan 24RL</b>		related to environmental-sustainability issues	prepares students to specialize in electrical troubleshooting for employment as HVAC trainees. This certificate places a strong emphasis on national Electrical Code, meters, schematics, and wiring diagrams, electrical troubleshooting, electrical service procedures, electrical test equipment, and safety. Students learn to use electrical test equipment found in a HVAC setting. Students will be given a national exit exam after each advanced course which provides passing students recognition on the Air Conditioning, Heating, and Refrigeration Institute (AHRI) national registry distributed to heating, air conditioning, ventilation, and refrigeration employers.
	Energy Audit	<b>Associate in Applied Science Plan 24RO</b>	66	<u>Major</u> part of program related to environmental-sustainability issues	The Energy Audit curriculum is aligned with the educational standards of Residential Energy Services Network (RESNET®) and the Illinois Occupational Skill Standards for HVACR. HET courses in A/C split-systems, residential HVAC, Resnet exam preparation, building insulation, energy auditing, air movement and ventilation, HVACR Codes, EPA and NATE certification preparation, Carpentry, and a HET capstone course meet re-certification requirements for NATE. The Energy Audit program is a partner of the Residential Energy Services Network (RESNET®). Upon successful completion of second semester courses, students will qualify to sit for the Industry Competency Examination (ICE), the North American Technician Excellence (NATE) exam, or the RESNET® exam which provide passing students recognition on national registries distributed to heating, ventilation, air conditioning, and refrigeration employers and homeowners.
	Energy Audit	<b>Certificate Plan 24RP</b>	33	<u>Major</u> part of program related to environmental-sustainability issues	The Energy Audit Certificate program prepares students to specialize in the energy audit and insulation of residential and commercial buildings while preparing them for employment as energy auditors or building insulation technicians, as well as to sit for the Residential Energy Services Network's (RESNET®) exam. Coursework provides an introduction to the energy audit and building insulation industry and emphasize hands-on blower door inspections, soldering and brazing, safety, and mechanical and electrical troubleshooting. Students learn to use refrigerants, gauges, and electrical test equipment in a residential commercial building setting. Students will be given a national exit exam after each advanced course which will give passing students national

[GREEN JOB PROGRAMS AT CLC]

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					recognition on the Air Conditioning, Heating, and Refrigeration Institute (AHRI), the North American Technician Excellence (NATE), or the RESNET® national registry which goes to heating, air conditioning, ventilation, and refrigeration employers and homeowners. Students are strongly recommended to also complete the HET core certificate.
	HET Supervisor	<b>Associate in Applied Science Plan 24RQ</b>	66	Part of program related to environmental-sustainability issues	The HET Supervisor AAS program allows students to bridge into positions of management at HVAC contractor firms, commercial building operations firms, or start their own business in one of the HET areas of specialties in the HVAC industry. Students acquire skills in safety, HVAC principles, soldering and brazing, mechanical and electrical troubleshooting, refrigerant handling, the use of refrigerant gauges, electrical test equipment, training principles, project management, and supervision. The HET Supervisor program is a partner of the Business Division and the Air Conditioning, Heating, and Refrigeration Institute (AHRI). Upon completion of HET courses students qualify to sit for the Industry Competency Examination (ICE), the North American Technician Excellence (NATE), or the RESNET® exam which will give passing students national recognition on national registries which go to heating, ventilation, air conditioning, and refrigeration employers and homeowners. The HET Supervisor curriculum is aligned with the educational standards of the Partnership for Air-Conditioning, Heating, Refrigeration Accreditation (PAHRA) and the Illinois Occupational Skill Standards for HVACR. HET courses in A/C split-systems, residential HVAC systems, air movement & ventilation, advanced electrical, HVACR codes, EPA and NATE certification preparation, hydronic heating, and a HET capstone course meet re-certification requirements for NATE while Business courses prepare students for roles as supervisors.
	HET Supervisor	<b>Certificate Plan 24RR</b>	33	Part of program related to environmental-sustainability issues	The HET Supervisor Certificate program allows students to bridge into positions of management at HVAC contractor firms, commercial building operations firms, or to start their own business in one of the HET areas of specialties. Students learn to use refrigerants, gauges, and electrical test equipment in a variety of settings. Students will be given a national exit exam after each advanced course. Passing students will gain national recognition on the Air Conditioning, Heating, and Refrigeration Institute (AHRI), North American

[GREEN JOB PROGRAMS AT CLC]

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					Technician Excellence (NATE), and Residential Energy Services Network (RESNET®) national registry which is distributed to heating, air conditioning, ventilation, and refrigeration employers and homeowners. Students are strongly recommended to also complete the HET core certificate.
	Industrial Refrigeration	<b>Associate in Applied Science Plan 24RB</b>	66	Part of program related to environmental-sustainability issues	The Industrial Refrigeration AAS program allows students to specialize in the design, layout, installation, and service of industrial refrigeration equipment and prepares them for service and insulation positions in the HVACR industry. Students acquire skills in safety, HVAC principles, soldering and brazing, mechanical and electrical troubleshooting, refrigerant handling, the use of refrigerant gauges, and electrical test equipment.
	Industrial Refrigeration	<b>Certificate Plan 24RH</b>	33	Part of program related to environmental-sustainability issues	The Industrial Refrigeration Certificate program allows students to specialize in industrial refrigeration while preparing them for employment as industrial refrigeration equipment technicians. After completing the HET Core Certificate these courses provide an introduction to the industrial refrigeration industry and emphasize hands-on service and installation techniques, soldering and brazing, safety, and mechanical and electrical troubleshooting. Students learn to use refrigerants, gauges, and electrical test equipment in a commercial setting. Students will be given a national exit exam after each advanced course which will provide passing students recognition on the Air Conditioning, Heating, and Refrigeration Institute (AHRI) national registry distributed to heating, air conditioning, ventilation, and refrigeration employers. Students are strongly recommended to also complete the HET core certificate.
	Light Commercial HVAC	<b>Associate in Applied Science Plan 24RC</b>	66	Part of program related to environmental-sustainability issues	The Light Commercial HVAC AAS program prepares students to specialize in the design, layout, installation, and service of commercial HVAC equipment in the HVAC industry. Students acquire skills in safety, HVAC principles, soldering and brazing, mechanical and electrical troubleshooting, refrigerant handling, the use of refrigerant gauges, and electrical test equipment.
	Light Commercial HVAC	<b>Certificate Plan 24RI</b>	33	Part of program related to environmental-sustainability issues	The Light Commercial HVAC Certificate program prepares students for specialization and employment as light commercial HVAC equipment technicians. Courses provide exposure to the light commercial HVAC industry and emphasize hands-on service and installation techniques, soldering and brazing, safety, and mechanical

[GREEN JOB PROGRAMS AT CLC]

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					and electrical troubleshooting. Students learn to use refrigerants, gauges, and electrical test equipment in a commercial setting. Students will be given a national exit exam after each advanced course which provide passing students recognition on the Air Conditioning, Heating, and Refrigeration Institute (AHRI) national registry distributed to heating, air conditioning, ventilation, and refrigeration employers. Students are strongly recommended to also complete the HET core certificate.
	Plumbing and Pipefitting	<b>Certificate Plan 24RU</b>	14	Part of program related to environmental-sustainability issues	The Plumbing and Pipefitting Certificate program prepares students for employment in plumbing and pipefitting as a plumber's trainee. This mini certificate places a strong emphasis on the layout and installation of various types of plumbing installations.
	Residential HVAC	<b>Associate in Applied Science) Plan 24RD</b>	66	Part of program related to environmental-sustainability issues	The Residential HVAC AAS program prepares students for service and installation positions with specialization in the design, layout, installation, and service of residential HVAC equipment. Students acquire skills in safety, HVAC principles, soldering and brazing, mechanical and electrical troubleshooting, refrigerant handling, the use of refrigerant gauges, and electrical test equipment. The Residential HVAC curriculum is aligned with the educational standards of the Partnership for Air-Conditioning, Heating, Refrigeration Accreditation (PAHRA) and the Illinois Occupational Skill Standards for HVACR. HET courses in A/C split-systems, residential HVAC systems, air movement & ventilation, advanced electrical, HVACR codes, EPA and NATE certification preparation, hydronic heating, and a HET capstone course meet re-certification requirements for NATE. The Residential HVAC program is a partner of the Air Conditioning, Heating, and Refrigeration Institute (AHRI). Upon completion of a second semester course students qualify to sit for the Industry Competency Examination (ICE), a nationally recognized credential in the HVACR industry which provides passing students national recognition on an AHRI or North American Technician Excellence (NATE) national registry distributed to heating, ventilation, air conditioning, and refrigeration employers.
	Residential HVAC	<b>Certificate Plan 24RE</b>	33	Part of program related to	The Residential HVAC Certificate program prepares students for employment as residential HVAC equipment technicians. Courses

[GREEN JOB PROGRAMS AT CLC]

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				environmental-sustainability issues	provide an introduction to the residential HVAC industry and emphasize hands-on service and installation techniques, soldering and brazing, safety, and mechanical and electrical troubleshooting. Students learn to use refrigerants, gauges, and electrical test equipment in a residential setting. Students will be given a national exit exam after each advanced course which provides passing students recognition on the Air Conditioning, Heating, and Refrigeration Institute (AHRI) national registry distributed to heating, air conditioning, ventilation, and refrigeration employers Students are strongly recommended to also complete the HET core certificate.
	Stationary Engineer	<b>Associate in Applied Science Plan 24RS</b>	66	Part of program related to environmental-sustainability issues	The Stationary Engineering AAS program prepares students for employment as stationary engineers specialization in design, layout, installation, and service of commercial building HVAC equipment and green roof technology. Program coursework also prepares students to sit for the Chicago Stationary Engineer Exam. Students acquire skills in safety, HVAC principles, soldering and brazing, mechanical and electrical troubleshooting, refrigerant handling, the use of refrigerant gauges, and electrical test equipment. The Stationary Engineer curriculum is aligned with the educational standards of the Partnership for Air-Conditioning, Heating, Refrigeration Accreditation (PAHRA) and the Illinois Occupational Skill Standards for HVACR. Many HET courses in the program (A/C split-systems, commercial HVAC systems, advanced electrical, EPA and NATE certification preparation, pipefitting, Resnet exam preparation, building insulation, energy auditing, Chicago stationary engineer exam preparation and a HET capstone course) meet re-certification requirements for NATE. The Stationary Engineer program is a partner of the Air Conditioning, Heating, and Refrigeration Institute (AHRI). Upon completion of a second semester course students qualify to sit for the Industry Competency Examination (ICE), a nationally recognized credential in the HVACR industry which will provide passing students recognition on an AHRI or North American Technician Excellence (NATE) national registry distributed to heating, ventilation, air conditioning, and refrigeration employers.
	Stationary Engineer	<b>Certificate Plan 24RT</b>	33	Part of program related to	The Stationary Engineer Certificate program prepares students for employment as Stationary Engineers in commercial building HVAC.



[GREEN JOB PROGRAMS AT CLC]

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				environmental-sustainability issues	Program coursework also prepares students to sit for the Chicago Stationary Engineer Exam. Courses provide an introduction to the building engineer industry and emphasize hands-on service and installation techniques, soldering and brazing, safety, and mechanical and electrical troubleshooting. Students learn to use refrigerants, gauges, and electrical test equipment in a commercial building setting. Students will be given a national exit exam after each advanced course which provide passing students recognition on the Air Conditioning, Heating, and Refrigeration Institute (AHRI), the North American Technician Excellence (NATE), or the Residential Energy Services Network's (RESNET®) national registry distributed to heating, air conditioning, ventilation, and refrigeration employers. Students are strongly recommended to also complete the HET core certificate.
	Sustainable Design & Construction – NEW Fall 2010	<b>Certificate Plan 24BB</b>	16	<u>Major</u> part of program related to environmental-sustainability issues	The Sustainable Design and Construction certificate is an interdisciplinary program that incorporates coursework in Architectural design, Horticulture, Construction Management, HVAC and Electronics/Alternative energy. Each course includes learning outcomes for green and sustainable design and/or construction within that course's discipline. This certificate is intended as a post-associate or post-bachelor degree supplement to enhance a professional's working knowledge in green and sustainable design and construction. The certificate culminates in a course which covers the LEED certification program.
	Alternative Energy Technologies – NEW Fall 2010	<b>(Certificate) Plan 24EN</b>	25	<u>Major</u> part of program related to environmental-sustainability issues	This certificate provides entry level technical instruction on wind, solar and geothermal energy sources. Courses in this certificate may also apply to certificates specific to solar, wind or geothermal energy technologies.
<b>Biological and Health Sciences</b>	Horticulture Production	<b>Associate in Applied Science Plan 21HA</b>	62	<u>Major Focus</u> on Environmental-Sustainability Issues	The Horticulture curriculum provides a foundation in one of our occupational areas: Horticulture Production, Landscape Design, Landscape Construction and Maintenance, or Natural Areas Management. Course work is intended for persons who are already

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	Landscape Design	<b>Associate in Applied Science Plan 21HB</b>	62	<u>Major Focus</u> on Environmental-Sustainability Issues	employed in horticulture as well as those who want to enter the field. Supervised fieldwork or Cooperative Work Experience is provided for students with sophomore status, and is required of those students with no work experience in horticulture
	Landscape Construction and Maintenance	<b>Associate in Applied Science Plan 21HC</b>	62	<u>Major Focus</u> on Environmental-Sustainability Issues	
	Natural Areas Management	<b>Associate in Applied Science Plan 21HP</b>	62	<u>Major Focus</u> on Environmental-Sustainability Issues	
	Landscape Design	<b>Certificate Plan 21HD</b>	18	<u>Major Focus</u> on Environmental-Sustainability Issues	
	Landscape Maintenance	<b>Certificate Plan 21HH</b>	18	<u>Major Focus</u> on Environmental-Sustainability Issues	
	Arboriculture	<b>Certificate Plan 21HL</b>	18	<u>Major Focus</u> on Environmental-Sustainability Issues	
	Natural Areas Management	<b>Certificate Plan 21HQ</b>	18	<u>Major Focus</u> on Environmental-Sustainability Issues	