

Green Building Maintenance and Management

Degree Awarded: Associate in Applied Science

Offered through the Hudson Valley Educational Consortium.

Lead college: SUNY Sullivan

Recommended Course Sequence

Pre-Program Requirements

Math Comp

First Semester:

	Credits
CCS 102 College Life Skills	1
ENG 101 Freshman English I	3
MAT 101 Elementary Algebra	3
GRB 1100 Intro to Green Buildings (fall only)	3
GRB 1200 Intro to Renewable Energy [‡] (fall only)	3
_____ Computer Science elective	3
PES 100 Concepts of Wellness	1
PES _____ Physical Education Activity	1

Second Semester:

ENG 102 Freshman English II	3
PHL 220 Ethics	3
GRB 1300 Energy Management [‡] (spring only)	3
GRB 1400 Green Building Materials [‡] (spring only)	3
BIO 101 General Ecology	4

Third Semester:

ECO 202 Microeconomics	3
GRB 2100 Building Automation and Controls [‡] (fall only)	3
GRB 2200 Solar & Wind Systems [‡] (fall only)	3
BIO 205 General Ecology	3
GRB 2300 Commercial Electrical [‡] (fall only)	3

Fourth Semester:

GRB 2400 Care of Green Spaces [‡] (spring only)	3
MGT 205 Human Resources Management	3
GRB 2500 Troubleshooting Building Systems [‡] (spring only)	3
_____ Liberal Arts elective	3-4
GRB 2600 Green HVAC [‡] (spring only)	3
Total Credits: 65-66	

* Required of all first-time, full-time students

NOTE: See College Catalog for math competency requirement.

**All AAS degrees require ENG 1001 Composition I, ENG 1301 Fundamentals of Speech, a 4 credit science course with lab and a minimum of 10 additional Liberal Arts credits from at least two other areas of study. Liberal Arts prefixes: ANT, ART, ECO, ENG, FLA, GEO, HIS, HON, HUM, MAT, PHO, POL, PSY, SCI, and SOC. CPT 1301, Logic and Problem Solving, is also singularly classified as liberal arts.

[‡] The technical courses for this program will be delivered on site and/or through interactive TV Distance Learning Technology approved for all Consortium colleges.

Program Description

The associate in applied science degree in Green Building Maintenance and Management provides students with the skills and knowledge needed to maintain and manage high-performance commercial buildings.

New construction and existing buildings that have upgraded energy systems rely on sustainable technology. Recent emphasis on green technologies and LEED-certified (Leadership in Energy and Environmental Design) building standards support the use of alternative forms of energy as well as the use of sustainable products for construction, interior design and building maintenance. In addition to learning the most current theories, students will acquire the hands-on training needed to work with rapidly evolving technologies including photovoltaic cells, wind generators and geothermal heating, ventilation and air conditioning (HVAC) systems.

This program includes lab-based courses, designated with GRB, which requires students to travel to Sullivan County.

Admission Criteria

Admission to this program requires that students be high school graduates or have high school equivalency diplomas (GEDs). If students are not high school graduates, they may be eligible for admission to the College's 24 Credit Hour Program. If students are home schooled, they may be eligible for admission.

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Student Learning Outcomes

Students will learn:

- the skills and knowledge necessary to make decisions about the management and maintenance of building systems,
- to maintain both conventional and green building technologies and systems that are used to produce energy, heat, light, and ventilation as well as those that consume energy,
- to calculate energy efficiency and recommend changes for better outcomes,
- the essential components of building wiring, heating, cooling, and ventilation systems so they can assume responsibility for maintenance of these systems,
- the basic principles for the positioning and use of wind turbines, photovoltaic cells, passive solar systems and other green building systems,
- to manage projects, including communication with the building owners, utilities, planners, and contractors to assure effective and efficient building maintenance and management.

Career Opportunities

- Energy and indoor air quality auditor
- HVAC operations and maintenance technician
- Solar and wind energy technician
- Green building, renewable energy and energy efficiency consultant

Transfer Opportunities

While the A.A.S. degree leads to immediate employment, please check with the intended transfer school for details.

Contact Information

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