

Construction Trades Green Technology

Associate in Applied Science

Career Pathway: *Engineering, Manufacturing and Industrial Technology*

Career Cluster: *Manufacturing, Science, Technology, Engineering and Mathematics*

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The Construction Trades Green Technology program prepares students with both the theoretical and applied knowledge necessary to gain successful employment in the construction industry. Students will also develop a solid foundation in "green" building in accordance with National Association of Home Builders (NAHB) guidelines. Students will also gain a thorough understanding of energy efficiency and conservation practices related to home design and construction. The curriculum is aligned with national competency standards and trade specific skills, and is not designed as a transfer degree. A variety of courses also prepare the student to take nationally recognized certification exams.

Students in this program will develop the understanding and skills to build, inspect, repair, and weatherize structures utilizing trade specific tools and equipment; blueprints and plans; and develop the ability to manage projects while controlling costs. Students will also gain an understanding of fundamental business practices.

Salary ranges vary depending upon the type of position obtained, field of choice and geographic region. For detailed information concerning occupational outlook and wage information, visit the O*NET Online website at:

<http://online.onetcenter.org>

Prerequisites

- ◆ Students will need to demonstrate proficiency in mathematics, reading and English based on SMC assessment tests, ACT or SAT scores, or by taking the recommended courses.

- ◆ Some of the courses in this curriculum have specific prerequisites that may not be listed as part of the certificate requirements. These are described in the course descriptions.
- ◆ ACE Testing, which grants students credit for demonstration of skills mastery, is also available in the Testing Center for a number of courses.

Course Sequence

- ◆ Many of the courses in this curriculum must be taken in a prescribed sequence. The listing that follows is a suggested sequence of courses for full-time students.
- ◆ Students seeking to start this curriculum in the spring semester should consult the program advisor for the best selection of courses.
- ◆ Please be sure to consult the course descriptions as some courses may not be offered every semester.

General Education Requirements

- ◆ The general education courses listed for this degree require a C (2.0) or better for graduation. See "General Education Requirements" for more information and a full listing of all general education courses.

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Course	Credits
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Semester I

BUSI 101	Introduction to Business	3
BUSI 240	Professionalism Workshop	1
CONS 114	Intermediate Construction Practices	8
CONS 117	Print Reading for Construction Trades	2
ISYS 110	Introduction to Computer Technology	3

Semester II

CONS 115	Construction Math	2
CONS 130	Interior & Exterior Finishes	3
CONS 135	Electrical & Mechanical Systems	3
CONS 140	Quantity and Cost Estimating	3
CONS 145	Administration & Scheduling	3
CONS 255	Internship	3

Semester III

CADD 101	Introduction to CAD/Auto CAD	4
CONS 165	Building Analyst/Envelope	4
ENGL 103	Freshman English II	3
OR		
ENGL 103W	Freshman English II w Workshop	(4)
MATH 102	Mathematical Literacy	4

Course	Credits
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Semester IV

CONS 169	Green Professional	2
CONS 150	Solar Energy Technology	1
CONS 161	REScheck Building Energy Codes	2
CONS 180	Design and Planning	5
SPEE 102	Fundamentals of Public Speaking	3

Total Program Credits	62-63
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