

Associate in Applied Science in Construction Trades Green Technology

Program Outcomes

Upon completion of this degree, students will have a solid foundation in "green" building in accordance with the National Association of Home Builders (NAHB) guidelines. Students will take a variety of courses to prepare them for nationally recognized certification exams. Students will develop the understanding and skills to build, inspect, repair, and weatherize structures utilizing trade specific tools and equipment.

Employment Opportunities or Additional Educational Options

The Construction Trades Green Technology program prepares students to gain successful employment in the construction industry. Students who intend to transfer to another school for further education in this field should speak with an advisor.

To Learn More About This Program

Contact Larry Wilson at 269-783-2966 or lwilson05@swmich.edu.

Degree Requirements

To earn this degree, students must have an overall GPA of 2.0 or higher, complete a minimum of 60 credit hours, and fulfill the course requirements of the program listed below. Students are permitted to complete a higher-level math course than shown below. Each general education course, prerequisite course, internship, and capstone course must be completed with a final grade of "C" or better.

General Education Courses

COMMUNICATIONS

Course ID	Course	Credits
ENGL 103 or ENGL 103W	Freshman English 2 (or with workshop)	3 to 4 credits
SPEE 102	Fundamentals of Public Speaking	3 credits

MATHEMATICS

Course ID	Course	Credits
MATH 102	Mathematical Literacy	4 credits

Major-specific Required Courses

Course ID	Course	Credits
EDUC 120	Educational Exploration and Planning	1 credit
BUSI 200	Small Business Management	3 credits
BUSI 240	Professionalism Workshop	1 credit
CADD 101	Introduction to CAD/Auto CAD	4 credits
CONS 114	Intermediate Construction Practices	8 credits
CONS 115	Construction Math	2 credits
CONS 117	Print Reading for Construction Trades	2 credits
CONS 130	Interior and Exterior Finishes	3 credits
CONS 135	Electrical and Mechanical Systems	3 credits
CONS 140	Quality and Cost Estimating	3 credits
CONS 145	Administration and Scheduling	3 credits
CONS 150	Solar Energy Technology	1 credit
CONS 161	REScheck Building Energy Codes	2 credits
CONS 165	Building Analyst/Envelope	4 credits
CONS 169	Green Professional	2 credits
CONS 180	Design and Planning	5 credits
CONS 255	Internship	3 credits
ISYS 110	Introduction to Computer Technology	3 credits

Total Program Credits: 63

Additional Notes About the A.A.S. in Construction Trades Green Technology Program

- A prerequisite course may be needed prior to enrollment in some courses within this program. Specific prerequisite requirements are listed in the Course Description section in the Course Catalog. A summary of the prerequisites are listed below in the Example Course Sequence.
- This program as outlined does not meet MTA requirements. If you are interested in satisfying MTA requirements, you must take a higher-level mathematics course, two different natural science courses, two different social science courses, and two different humanities courses. Please see your advisor for specific MTA guidelines and proper course selection.
- Students who complete the A.A.S. in Construction Trades Green Technology program will have also met the requirements of the certificate program.
- Courses taken out of sequence may delay a student's ability to complete the program in a timely manner. Please consult your advisor regularly.
- Each student should submit a graduation application at least one full semester before he/she plans to graduate.
- This program is subject to change. Students should consult with their advisor for program updates.

Example Course Sequence

The following is a sample of a semester-by-semester approach to completing this program.

FIRST SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
EDUC 120 Educational Exploration and Planning	1 credit	ENGL 115 or test score (concurrent enrollment allowed)
CONS 114 Intermediate Construction Practices	8 credits	ENGL 115 or test score (concurrent enrollment allowed)
CONS 117 Print Reading for Construction Trades	2 credits	None
BUSI 200 Small Business Management	3 credits	ENGL 115 or test score (concurrent enrollment allowed)
ISYS 110 Intro to Computer Technology	3 credits	None
BUSI 240 Professionalism Workshop	1 credit	None

SECOND SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
CONS 115 Construction Math	2 credits	MATH 098 or test score
CONS 130 Interior and Exterior Finishes	3 credits	None
CONS 135 Electrical and Mechanical Systems	3 credits	None
CONS 140 Quantity and Cost Estimating	3 credits	ISYS 110
CONS 145 Administration and Scheduling	3 credits	None
CONS 255 Internship	3 credits	Minimum grade of "C" in all first semester Construction Trades Technology courses

THIRD SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
ENGL 103 or ENGL 103W Freshman English 2 (or with workshop)	3 to 4 credits	ENGL 115 or test score (concurrent enrollment allowed)
CADD 101 Introduction to CAD/Auto CAD	4 credits	None
CONS 165 Building Analyst/Envelope	4 credits	None
MATH 102 Mathematical Literacy	4 credits	MATH 098 or test score

FOURTH SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of "C" Required)
SPEE 102 Fundamentals of Public Speaking	3 credits	None
CONS 169 Green Professional	2 credits	None
CONS 150 Solar Energy Technology	1 credit	None
CONS 161 REScheck Building Energy Codes	2 credits	ISYS 110 (concurrent enrollment allowed)
CONS 180 Design and Planning	5 credits	CADD 101

