

Associate in Applied Science in Construction Trades Green Technology

Program Overview

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.

To Learn More About This Program

Contact John Tinker at 269-783-2966 or jtinker01@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.

Course Offerings

Students pursuing an Associate in Applied Science in Construction Trades Green Technology may complete select courses for this program online. Courses within this program may also be offered on-site at our Dowagiac or Niles campus.

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 128	Contemporary Mathematics	4 credits

Total Program Credits: 63

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	3 credits
CONS 113	Trade Mathematics-Construction	3 credits
CONS 114	Intermediate Construction Practices	8 credits
CONS 117	Print Reading for Construction Trades	2 credits
CONS 131	Exterior Finishes	3 credits
CONS 132	Interior Finishes	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

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 is listed below in the Example Course Sequence.
- This program as outlined does NOT meet MTA requirements. Students would need a higher-level mathematics course, two different natural science courses, two different social science courses, and two different humanities courses. If interested in the MTA, students should seek help from an advisor for 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 they plan 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, ENGL 103W, ENGL 103, ENGL 104, or English test score (Level 2 or higher); concurrent enrollment in ENGL 115 allowed
BUSI 200 Small Business Management	3 credits	ENGL 115, ENGL 103W, ENGL 103, ENGL 104, or English test score (Level 2 or higher); concurrent enrollment in ENGL 115 allowed
BUSI 240 Professionalism Workshop	1 credit	None
CONS 114 Intermediate Construction Practices	8 credits	None
ISYS 110 Intro to Computer Technology	3 credits	None

SECOND SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of C Required)
CONS 113 Trade Mathematics-Construction	3 credits	None
CONS 117 Print Reading for Construction Trades	2 credits	None
CONS 131 Exterior Finishes	3 credits	None
CONS 140 Quantity and Cost Estimating	3 credits	ISYS 110
CONS 145 Administration and Scheduling	3 credits	None
ENGL 103 or ENGL 103W Freshman English 2 (or with workshop)	3 to 4 credits	ENGL 103W: English test score (Level 2 or higher) ENGL 103: ENGL 115 or English test score (Level 3); concurrent enrollment in ENGL 115 allowed

THIRD SEMESTER

Courses	Credits	Prerequisites (Minimum Grade of C Required)
CADD 101 Introduction to CAD/Auto CAD	3 credits	None
CONS 132 Interior Finishes	3 credits	CONS 131
CONS 165 Building Analyst/Envelope	4 credits	None
CONS 255 Internship	3 credits	Minimum grade of C in all first semester Construction Trades Technology courses
MATH 128 Contemporary Mathematics	4 credits	AUTO 113, CONS 113, or WELD 113, Math test score (Level 3 or higher), or concurrent enrollment in MATH 128C

FOURTH SEMESTER

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