

ASSOCIATE OF APPLIED SCIENCE DEGREE

Energy Efficient Building Technology: Alternative Technologies

The Energy Efficient Building Technology program prepares students for employment in the construction industry or in related occupations. The program is built around National Center for Construction Education and Research (NCCER) standards and is comprised of a core component covering basic employability skills, introductory carpentry, and green building practices coupled with specialty options of general construction, construction management, or alternative technologies. This Program of Study addresses the Alternative Technologies Option.

Program of Study

Orientation	1 hour
COLL 101*	
Communications	9 hours
Written Communications: 6 hours	
ENGL 101*	
ENGL 102*	– OR – ENGL 104*
ENGL 203*	
Oral Communications: 3 hours	
COMM 104*	
Missouri Constitution	3 hours
HIST 106*	
PLSC 103*	
Common Support Courses	8 hours
BSAD 115	– OR – BSAD 125
BSAD 103	
DRFT 105	
Mathematics	3 hours
MATH 111* College Algebra (3)	
Common Construction Courses	15 hours
CONS 103* Sustainable Building Fundamentals (3)	
CONS 105 Introduction to Construction Technology (3)	
CONS 112* Carpentry Fundamentals (3)	
CONS 116* Framing and Finishing (3)	
CONS 290* Construction Internship (3)	
Alternative Technologies Courses	24 hours
Required Courses: 24 hours	
AMT 102* Intro to Industrial Electricity (3)	
CONS 155* Basic HVAC (3)	
CONS 232 Site Layout (3)	
CONS 243* Project Supervision (3)	
CONS 264* Geothermal Heat Pump Systems (3)	
CONS 265* Alternative Energy Technologies (3)	
CONS 268* Energy Usage Auditing (3)	
Electives: Choose 3 hours	
CONS 131 Plumbing (3)	
CONS 141* Electrical I (3)	
CONS 174* Carpentry Forms (3)	

Suggested Plan of Study

FIRST YEAR

Fall Semester	Hours
COLL 101 College Orientation	1
COMM 104 Fundamentals of Speech	3
CONS 103 Sustainable Bldg Fundamentals	3
CONS 105 Intro to Construction Technology	3
MATH 111 College Algebra – OR – Math 104	3
Approved Written Communications Course	3
TOTAL	16

Spring Semester	Hours
AMT 102 Introduction to Industrial Electricity	3
BSAD 115 Comp Concepts – OR – BSAD 125	3
CONS 112 Carpentry Fundamentals	3
CONS 116 Framing and Finishing	3
DRFT 105 Architectural Drafting	3
TOTAL	15

SECOND YEAR

Fall Semester	Hours
CONS 232 Site Layout	3
CONS 265 Alternative Energy Technologies	3
HIST 106 US History – OR – PLSC 103	3
Approved Elective	3
Approved Written Communications Course	3
TOTAL	15

Spring Semester	Hours
BSAD 103 Pro Dev – OR – CNS 105/106	2
CONS 155 Basic HVAC	3
CONS 243 Project Supervision	3
CONS 264 Geothermal Heat Pump Sys	3
CONS 268 Energy Usage Auditing	3
CONS 290 Construction Internship	3
TOTAL	17

TOTAL HOURS REQUIRED 63

*Prerequisite required

Students interested in enrolling in technology classes should be advised through the Crowder Technical Education Center (CTEC). After advisement, the student should be enrolled through the CTEC personnel. For additional information, please contact 417-455-5596.

This Suggested Plan of Study is based on course offerings at the Neosho Campus and online. Adjustments in scheduling may need to be made based on other campus course offerings. This is just one possible plan. The length of time to complete the program may vary for each student. In addition, based on placement results, individuals may need to take additional courses for academic remediation.