

ASSOCIATE OF APPLIED SCIENCE DEGREE

Alternative Energy - Wind

The Alternative Energy Program AAS Degree provides students with a unique applied foundation in renewable energy technology. The program's emphasis on vocational wind turbine technology is designed to give the student a strong footing for employment or transfer to any of our cooperative programs that are available at Missouri State University or Pittsburg State University. Students in the Alternative Energy program include engineering, science, and technology majors. Students are required to take a certification exam given as part of the ENER 232 course and report their score to the College for completion of this degree program. Students are strongly encouraged to contact the wind Instructor for advisement before beginning this program.

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*		
Mathematics		3 hours	
MATH	104* (3)		
MATH	111* (3)		
Science		5 hours	
PHYS	101 (5)		
Missouri Constitution		3 hours	
HIST	106*		
PLSC	103*, 104*		
Required Courses		41 hours	
AMT	102 (3)	ENER	105 (3)
AMT	112 (3)	ENER	132 (3)
AMT	132* (3)	ENER	134* (3)
AMT	204* (3)	ENER	160 (3)
BSAD	103 (2)	ENER	162* (3)
CNS	101 (3)	ENER	201 (3)
CNS	115 (3)	ENER	232* (3)
Approved Electives		3 hours	
BSAD	115 (3)	ENER	156, 157, 158 Projects (1-3)
BSAD	125 (3)	ENER	256, 257, 258 Projects (1-3)
CONS	243* (3)	MATH	112* (3)

Suggested Plan of Study

FIRST YEAR

Fall Semester		Hours
CNS	101 Introduction to Electronics	3
COLL	101 College Orientation	1
ENER	105 Introduction to Energy	3
ENER	160 Intro to Process Technology	3
MATH	104 – OR – 111	3
	Approved Written Communications Course	3
	TOTAL	16

Spring Semester		Hours
AMT	102 Intro to Industrial Electricity	3
AMT	112 Occupational Safety	3
ENER	132 Introduction to Wind	3
PHYS	101 Survey of Physical Science	5
	Approved Written Communications Course	3
	TOTAL	17

SECOND YEAR

Fall Semester		Hours
AMT	204 Programmable Logic Controllers	3
COMM	104 Fundamentals of Speech	3
ENER	134 Turbine Troubleshooting	3
ENER	162 Intro to Electric Power Trans	3
PLSC	103 Nat'l, State, Local Government	3
	TOTAL	15

Spring Semester		Hours
AMT	132 Industrial Hydraulics	3
BSAD	103 Professional Development	2
CNS	115 CISCO Networking I	3
ENER	201 Introduction to SCADA	3
ENER	232 Wind Turbine Internship	3
	Approved Elective	3
	TOTAL	17

TOTAL HOURS REQUIRED 65

*Prerequisite requirement

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.