

ASSOCIATE OF ARTS DEGREE

Alternative Energy – Wind

The Alternative Energy Wind Program provides engineering and science students with a unique applied foundation in renewable energy technology. The program emphasizes wind turbine technology. The curriculum below 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, Missouri University of Science and Technology (Rolla), and 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*
Oral Communications (3 hours)			
COMM	104*		
Humanities		9 hours	
Fine Arts (3 hours)		Additional Humanities (3 hours)	
ART	101	ART	101
MUSC	101	ASL	101, 102*
TA	205	ENGL	109, 120, 125
		FREN	101
Literature (3 hours)		HIST	101*
ENGL	109, 120, 125	MUSC	101
		PHIL	101*, 110*, 121, 201*, 202*
		SPAN	101
		SWK	219
		TA	205
Mathematics		5 hours	
MATH	111* & 112*, 150* & 160*		
Physical Education		2 hours	
PE	113	OR two of the following:	
		PE	102, 103, 104, 105, 110, 111, 114, 116, 117, 118, 144, 145, 204*, 205*, 216*, 244*, 245*
Science		10 hours	
Biological Science (5 hours)		Physical Science (5 hours)	
BIOL	101	CHEM	101, 111*
		PHYS	101, 190*
Social and Behavioral Science		9 hours	
Missouri Constitution (3 hours)		Additional (3 hours)	
PLSC	103*, 104*	ECON	201*
HIST	106*	GEOG	111
		HIST	101*, 102*, 106*, 107*
Additional (3 hours)		PHIL	110*, 121
ECON	202*	PLSC	103*, 104*, 205*
		PSYC	101, 210*, 215*
		SOC	101, 103*
Major Courses		21 hours	
AMT	102	ENER	132
AMT	112	ENER	134*
CNS	101	ENER	232*
ENER	105		

Suggested Plan of Study

FIRST YEAR

Fall Semester		Hours
BIOL	101 Biology	5
CNS	101 Introduction to Electronics	3
COLL	101 College Orientation	1
ENER	105 Introduction to Energy	3
ENGL	101 English Composition	3
MATH	111 College Algebra	3
TOTAL		18

Spring Semester		Hours
AMT	102 Intro to Industrial Electricity	3
AMT	112 Occupational Safety	3
ENER	132 Introduction to Wind	3
ENGL	102 Advanced English Comp	3
Approved Fine Arts Course		3
Approved Physical Education Course		2
TOTAL		17

SECOND YEAR

Fall Semester		Hours
COMM	104 Fundamentals of Speech	3
ENER	134 Wind Turbine Troubleshooting	3
MATH	112 Trigonometry	3
Approved Physical Science Course		5
Approved Literature Course		3
TOTAL		17

Spring Semester		Hours
ECON	202 Principles of Econ II (Micro)	3
ENER	232 Wind Turbine Internship	3
PLSC	103 Nat'l, State, Local Gov't	3
Approved Humanities Course		3
Approved Soc & Behavioral Science Course		3
TOTAL		15

TOTAL HOURS REQUIRED 67

*Prerequisite required

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.