

ASSOCIATE OF APPLIED SCIENCE DEGREE

Alternative Energy - Solar

The Alternative Energy-Solar AAS degree provides students with a unique applied foundation in solar technologies. The program covers all aspects of solar technologies and 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-Solar program include engineering, science, and technology majors. Students are required to take the entry level NABCEP Solar PV exam given as part of the ENER 260 course. Students must also report their score to the College for completion of this degree 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		38 hours	
AMT	112 (3)	ENER	105 (3)
BSAD	103 (2)	ENER	150* (3)
CNS	101 (3)	ENER	151* (2)
CONS	105 (3)	ENER	250* (3)
CONS	131 (3)	ENER	251* (2)
CONS	141* (3)	ENER	260* (3)
DRFT	101 (3)	ENER	261* (2)
Approved Electives		5 hours	
AMT	102 (3)	DRFT	103 (3)
CONS	243* (3)	ENER	156, 157, 158 Projects (1-3)
CONS	245 (3)		

Suggested Plan of Study

FIRST YEAR

Fall Semester			Hours
COLL	101	College Orientation	1
CONS	105	Introduction to Construction	3
ENER	105	Introduction to Energy	3
MATH	111	College Algebra	3
PLSC	103	– OR – HIST 106	3
		Approved Written Communications Course	3
TOTAL			16

Spring Semester			Hours
AMT	112	Occupational Safety	3
ENER	250	Solar Thermal Systems	3
ENER	251	Solar Thermal Systems Lab	2
PHYS	101	Survey of Physics	5
		Approved Written Communications Course	3
TOTAL			16

SECOND YEAR

Fall Semester			Hours
CNS	101	Introduction to Electronics	3
COMM	104	Fundamentals of Speech	3
CONS	141	Electricity	3
ENER	150	Passive Solar Systems	3
ENER	151	Passive Solar Systems Lab	2
		Approved Elective	3
TOTAL			17

Spring Semester			Hours
ENER	260	Solar Electric Energy	3
ENER	261	Solar Electric Lab	2
CONS	131	Plumbing	3
DRFT	101	Intro to Engineering Drawing	3
BSAD	103	Professional Development	2
		Approved Elective	2
TOTAL			15

TOTAL HOURS REQUIRED 64

*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.