

ASSOCIATE OF ARTS DEGREE

Alternative Energy – Solar

The Alternative Energy Program – Solar provides engineering and science students with a unique applied foundation in solar technologies and applications. The program emphasizes learning through classroom and applied research projects. The curriculum below is the result of a cooperative agreement between Crowder College and the School of Engineering at the Missouri University of Science and Technology (Rolla); cooperative programs are available at Missouri State University and Pittsburg State University. Students in the Alternative Energy - Solar program include Alternative Energy, Engineering, Science, and Technology majors.

Orientation		1 hour	
COLL	101*		
Communications		9 hours	
Written Communications (6 hours)		OR	
ENGL	101*	ENGL	103*
ENGL	102*		
Oral Communications (3 hours)			
SPCH	101		
Humanities		9 hours	
Fine Arts (3 hours)		Additional Humanities (3 hours)	
ART	101	ART	101
MUSC	101	ENGL	109, 120, 125
TA	205	FREN	101
Literature (3 hours)		HIST	101
ENGL	109, 120, 125	HUM	102, 103
		MUSC	101
		PHIL	101, 110, 121, 201, 202
		SPAN	101
		TA	205
Mathematics		5 hours	
MATH	111* & 112*	MATH	150* & 160*
Physical Education		2 hours	
PE	113	OR two of the following:	
		PE	102, 103, 110, 111, 114, 135, 144, 145
		PE	104, 105, 116, 204*, 205*, 216*
Science		10 hours	
Biological Science (5 hours)		Physical Science (5 hours)	
BIOL	101, 110, 120	CHEM	101, 111*
Social and Behavioral Science		9 hours	
Missouri Constitution (3 hours)		OR	
PLSC	103, 104*	HIST	106
Additional Social Science (3 hours)			
ECON	202		
Additional (3 hours)			
ECON	201	PLSC	103, 104*, 205
GEOG	101	PSYC	101, 210*, 215*
HIST	101, 102, 106, 107	SOC	101, 102*, 103
PHIL	110, 121		
Major Courses		18 hours	
ENER	105 Intro to Solar Energy (3)		
ENER	150 Passive Solar Sys (3)		
ENER	250 Solar Thermal Sys (3)	ENER	251 Solar Thermal Lab (2)
ENER	260 Solar Electric Sys (3)	ENER	261 Solar Electric Lab (2)
Approved Electives (2 hours)			
ENER	151 Passive Solar Lab (2)		
ENER	156, 157, 158 Projects (1-3)		
ENER	256, 257, 258 Projects (1-3)		

Posted: 9-16-09 please consult our [college catalog](#) for the latest information on this program.