## 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. 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.

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Orientatio			1 hour		
	COLL	101*			
Communic	cations		9 hours		
	Written	Communications (6 h	ours)		
	ENGL	101*			
	ENGL	102*	OR	ENGL	104*
	Oral Cor	mmunications (3 hou	rs)		
	SPCH	101*			
Humanitie	s		9 hours	Addition	nal Humanities (3 hours)
		s (3 hours)		ART	101
	ART	101		ASL	101, 102
	MUSC	101		ENGL	109, 120, 125
	TA	205		FREN	101
		re (3 hours)		HIST	101
	ENGL	109, 120, 125		HUM	102, 103
	LINGL	100, 120, 120		MUSC	·
					101
				PHIL	101, 110, 121, 201, 202
				SPAN	101
				TA	205
Mathemati			5 hours		
	MATH	111* & 112*		MATH	150* & 160*
Physical E	ducation		2 hours	OR two	of the following:
	DE	110		55	102, 103, 104, 105, 110, 111, 114, 116, 117, 118, 144,
	PE	113		PE	145, 204*, 205*, 216*, 244*, 245*
Science			10 hours		
	Biologic	al Science (5 hours)		Physica	Science (5 hours)
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	BIOL	101		CHEM	101, 111* (5)
	_	101		PHYS	101, 111* (5) 101 (5)
	_	101			
Social and	BIOL		9 hours	PHYS	101 (5)
Social and	BIOL Behaviora	al Science	9 hours	PHYS PHYS	101 (5)
Social and	BIOL  Behaviora  Missour	al Science i Constitution (3 houi		PHYS PHYS OR	101 (5) 190* (5)
Social and	BIOL  Behaviora  Missoura  PLSC	al Science i Constitution (3 hour 103, 104*	rs)	PHYS PHYS	101 (5)
Social and	BIOL  Behaviora  Missoura  PLSC	al Science i Constitution (3 houi	rs)	PHYS PHYS OR	101 (5) 190* (5)
Social and	BIOL  Behaviora  Missoura  PLSC  Addition  ECON	al Science i Constitution (3 hour 103, 104* nal Social Science (3 h 202	rs)	PHYS PHYS OR	101 (5) 190* (5)
Social and	BIOL  Behaviora  Missoura  PLSC  Addition  ECON  Addition	al Science i Constitution (3 hour 103, 104* nal Social Science (3 h	rs)	PHYS PHYS OR	101 (5) 190* (5) 106
Social and	BIOL  Behaviora  Missoura  PLSC  Addition  ECON  Addition  ECON	al Science i Constitution (3 hour 103, 104* nal Social Science (3 h 202 nal (3 hours)	rs)	PHYS PHYS OR HIST	101 (5) 190* (5) 106 103, 104*, 205
Social and	BIOL  Behaviora  Missoura  PLSC  Addition  ECON  Addition	al Science i Constitution (3 hour 103, 104* nal Social Science (3 h 202 nal (3 hours) 201 101	rs)	PHYS PHYS  OR HIST  PLSC PSYC	101 (5) 190* (5) 106 103, 104*, 205 101, 210*, 215*
Social and	BIOL  Behaviora  Missour  PLSC  Addition  ECON  Addition  ECON  GEOG	al Science i Constitution (3 hour 103, 104* nal Social Science (3 h 202 nal (3 hours) 201	rs)	PHYS PHYS OR HIST	101 (5) 190* (5) 106 103, 104*, 205
	BIOL  Behaviora  Missouri  PLSC  Addition  ECON  Addition  ECON  GEOG  HIST  PHIL	al Science i Constitution (3 hour 103, 104* nal Social Science (3 h 202 nal (3 hours) 201 101 101, 102, 106, 107	rs) hours)	PHYS PHYS  OR HIST  PLSC PSYC	101 (5) 190* (5) 106 103, 104*, 205 101, 210*, 215*
Social and	BIOL  Behaviora  Missoura  PLSC  Addition  ECON  Addition  ECON  GEOG  HIST  PHIL	al Science i Constitution (3 hours) 103, 104* nal Social Science (3 in 202 nal (3 hours) 201 101 101, 102, 106, 107 110, 121	ns) hours) 18 hours	PHYS PHYS  OR HIST  PLSC PSYC	101 (5) 190* (5) 106 103, 104*, 205 101, 210*, 215*
	BIOL  Behaviora  Missoura  PLSC  Addition  ECON  Addition  ECON  GEOG  HIST  PHIL  ITSES  ENER	al Science i Constitution (3 hours) 103, 104* nal Social Science (3 in 202 nal (3 hours) 201 101 101, 102, 106, 107 110, 121  105 Intro to Energy (3	ns) hours) 18 hours	PHYS PHYS  OR HIST  PLSC PSYC SOC	101 (5) 190* (5) 106 103, 104*, 205 101, 210*, 215* 101, 103
	BIOL  Behaviora  Missoura  PLSC  Addition  ECON  Addition  ECON  GEOG  HIST  PHIL	al Science i Constitution (3 hours) 103, 104* nal Social Science (3 in 202 nal (3 hours) 201 101 101, 102, 106, 107 110, 121	18 hours 3) /s* (3)	PHYS PHYS  OR HIST  PLSC PSYC	101 (5) 190* (5) 106 103, 104*, 205 101, 210*, 215*

<sup>\*</sup>Prerequisite requirement