

ASSOCIATE OF ARTS DEGREE

Alternative Energy - Biofuels

The Alternative Energy Program provides engineering and science students with a unique applied foundation in alternative energy technologies and applications. The program emphasizes learning through coursework and applied research projects. This option provides students with background and experience in the production of three primary biofuels: biodiesel, bioethanol fuel, and biogas.

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		3 hours	
MATH	111*	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	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	140 Introduction to Biofuels (3)	ENER	248 Biofuels System Technology (3)
ENER	242 Biodiesel Production (3)		
ENER	244 Fuel Ethanol Production (3)		
ENER	246 Biogas Production (3)		
Approved Electives (3 hours)			
Computer Applications (3 hours)		OR	
COMP	120 Computer Applications (3)	ANSC	230 Ag Waste Management (3)
BSAD	125 Business Comp. Appl. (3)		
AGEC	223 Ag Computer Appl. (3)		

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