Sustainable Energy Systems

HEARTLAND COMMUNITY COLLEGE

Associate in Applied Science 64-65 Semester Hours

General Education Requirements			hrs	Program Description
COMM	101	Intro to Oral Communication	3	By enrolling in the Sustainable Energy Sys-
ENGL	101	Composition I	3	tems program, you develop a strong back-
MATH	109	College Algebra for Math & Science	4	ground in building systems for sustainable
Or				energy. You will learn about building auto-
TMAT	103	Technical Math I	4	mation, heating, cooling and controllers. You
MATH	128	Trigonometry	3	will also learn about green buildings, sustain-
Or				ability, renewable energy, and automation.
TMAT	105	Technical Math II	4	
EASC	151	Introduction to Weather	<u>4</u>	You choose to focus on an Environmental
		TOTAL	17-18	Control, Biofuels, or Hydro and HVAC op-
Technical Requirements				tion. When you complete this program, you
BUSN	145	1 3	1	can seek employment in an area where there
CNST	103	Building Mechanical &		is rapid growth in employment opportunities
		Electrical Systems	3	as a technician in sustainable energy, energy
CSCI	101	Intro to Computer Information Science		assessment and management, environmental
MAIN	101	Industrial Electricity & Systems	3	controls, and automation and controls.
MAIN	104	Air Conditioning and Refrigeration	3	
MAIN	201	Electrical Wiring and Maintenance	3	
MAIN	221	Heating Systems		
MAIN	222	Industrial Controllers	3	
NETW	160	Introduction to Networking	3	
REEC	110	Green Building Technology	3	
REEC	120	Sustainability and Renewable Energy	3	
REEC	210	Building Automation	3 3 <u>3</u>	
TECH	114	Introduction to Technical Graphics TOTAL	38	
Environmental Control Option				
Heartland Community College (HCC)				
REEC	220	Solar Thermal Systems	3	
REEC	223	Geothermal and Heat Pump Systems	3 3 <u>3</u> 9	
		Technical Electives*	<u>3</u>	
		TOTAL	9	
Biofuels Option				
Southeastern Illinois College (SIC)				
ENGY	111	Intro to Biofuels	3	*Technical electives may be taken as approved by
ENGY	131	Biodiesel Productions	3 <u>3</u> 9	advisor or STEM & Business Division; consider
		Technical Electives*	<u>3</u>	choosing these electives in order to earn additional
		TOTAL	9	Skills Certificates.
Hydro and HVAC Option				**John A. Logan College participants may substitute
John A. Logan College (JALC)**				ELT 143 for HCC's REEC 120
ELT	143	Renewable Energy Principals	3	
ELT	260	Hydropower	3	
HAC	140	, and the second	3 <u>3</u> 9	
		TOTAL	9	Updated 10/21/13