# **Energy Systems Program Maysville Community & Technical College**

## **Open Admissions Associate in Applied Science & Certificate**

Program Coordinator: Edward S. Parker Email: edwards.parker@kctcs.edu **Contact Information:** 606/759-7141 ext. 66212 Office: Technical Bldg. T-106

Student Name\_\_\_\_\_ Student ID #\_\_\_\_\_

			Associ in Applied S Degr	cience	Certificate	
Course Prefix Number	Course Title	Cr. Hrs.	Energy Sy 150503 Power I Operation 150503	7019 Plant Option 8701	Power Plant Operations 150503019	
MARIAAC	m 1 · 1M · 1	-	Required	Term	Required	Term
MAT 116	Technical Mathematics	3	Yes		Yes	
ENG 101	Writing I	3	Yes			
PHY 151	Introductory Physics I or higher	3	Yes		Yes	
	Heritage/Humanities	3	Yes			
	Social/Behavioral Sciences (ECO 101 Preferred)	3	Yes			
	Oral Communication	3	Yes		6	
	Subtotal General Education	18	Yes		6	
FCD 1.01	Computer/Digital Literacy	0-3	Yes			
ESP 101 ESP 211	Introduction to Energy Systems  Power Plant Operations I: Introduction to Power Plant Operations	3	Yes		Vee	
ISX 101		3	Yes		Yes Yes	
ELT 102	Introduction to Industrial Safety Blue Print Reading	2	Yes		Yes	
ESP 220	Power Plant Thermodynamic Applications <b>OR</b>	3	Either		Either	
ESP 220 ELT 210	Thermodynamic Applications	(3)	Or		Or	
ENV 110	Introduction to Environmental Technology	4	Yes		Oi	
ESP 110	Introduction to Environmental Technology  Introduction to Petroleum Based Fuels	3	Yes		Yes	
ESP 280	Capstone in Energy Systems <b>OR</b>	3	Either		Tes	
ISM 210	Fundamentals of Process Control	(3)	Or			
13141 2 1 0	Subtotal Technical Core	24-27	Oi		14	
ESP 212	Power Plant Operations II: Boilers/Fuel/Air/Combustion/Emissions	3	Yes		Yes	
ESP 213	Power Plant Operations III: Water/Steam/Turbines/Generators	3	Yes		Yes	
ESP 214	Power Plant Operations IV: Auxiliaries	3	Yes		163	
ESP 120	Power Plant Chemistry	3	Yes			
ESP 130	Electrical Concepts	3	Yes		Yes	
ESP 132	Electrical Machinery and Controls	3	Yes		103	
COE 199*	Cooperative Education	3	Yes		Yes	
3011))	Subtotal Power Plant Option	21	1.23	1	12	
	TOTAL CREDIT HOURS	63-66			32	
	TOTAL CILLDII HOURS	55 50		l		l .

Note: When switching from a certificate or diploma to a degree, placement scores must be re-evaluated.

#### **Advising Notes:**

- Math completion is required prior to taking Physics
- Physics must be completed before taking Thermodynamics
- Power Plant I will meet on campus the first night of classes thereafter it will meet at East Kentucky Power. It is very important to attend the first class to receive this information.

## **Student Note & Program Information:**

You will advise the first semester of classes with the Master Advising Center Advisors to register for classes, receive New Student Information, and attend Orientation. For your second semester you will schedule your advising appointment with the Program Coordinator. \*COE 199 requirement can be met by relevant work experience approved by the program coordinator.

## Placement for AAS Degree

Placement for AAS Degree			Placement for Certificate				
	Reading	Writing	Mathematics		Reading	Writing	Mathematics
ACT	20 or higher	18 or higher	19 or higher	ACT	20	18	19-21
COMPASS	85	74	31 or higher	COMPASS	80	64	42 (pre-algebra domain)