

**PROGRAM: AAS ENERGY SYSTEMS**  
**Division: Mathematics, Engineering and Physical Sciences**  
**TECH-129 (914) 606-6788**

Curriculum  
Code: TBA  
64-66 Credits

**Curriculum Chair**  
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**Reviewed By:** \_\_\_\_\_  
**Date:** \_\_\_\_\_  
**Approved By Chairperson/Dean:**  
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Course #	SEMESTER 1	Credits	✓
<i>ENG 101</i>	<i>Composition &amp; Literature 1</i>	3	
<i>MATH 135</i>	<i>College Algebra with Trigonometry</i>	4	
ELEC 128	Electrical Circuits	3	
PHYS 165	Principles of Energy	3	
	<i>Behavioral, Social Science or Humanities</i>	3	

Course #	SEMESTER 3	Credits	✓
MECH 260B	CAD 1	4	
<i>CHEM 107</i>	<i>Inorganic Chemistry OR</i>	4	
ELEC 160	Electronics <sup>1</sup>	3	
ELEC 129	Digital Logic	3	
	Technical Elective #-_____	3	
	Technical Elective #-_____	3	
	<i>Behavioral, Social Science or Humanities-</i>	3	
	<i>PE (sport)-</i>	1	

Course #	SEMESTER 2	Credits	✓
<i>ENG 102</i>	<i>Composition &amp; Literature 2</i>	3	
<i>MATH 161</i>	<i>Pre Calculus</i>	4	
MECH	Intro Thermodynamics	3	
<i>PHYS 123</i>	<i>College Physics 1</i>	4	
ELECT 134	Power Circuit Analysis	3	

Course #	SEMESTER 4	Credits	✓
ELEC 218	Introduction To Microprocessors	3	
MECH 120	Mechanisms	3	
	Technical Elective #-_____	3	
	Technical Elective #-_____	3	
	<i>Behavioral, Social Science or Humanities-</i>	3	
	<i>PE (fitness)-</i>	1	

*Bold italic items are Core Requirements.*

**NOTES:**

Select 4 courses from the following Electives:

<u><b>Nuclear Power</b></u>	Credits	<u><b>Electrical Power Distribution</b></u>	Credits
Nuclear Fundamentals	3	<b>ELEC 228:</b> Energy Conversion & Power	3
Reactor Materials	3	Distribution System Components	3
Radiation Detection	3	Transmission Line Theory and Practice	3
Reactor Theory	3	Instrumentation and Control	3
<u><b>Electrical Power Generation</b></u>			
<b>ELEC 204:</b> Electrical Machinery	3		
Power Generation Systems	3		
Power Plant Operation + Maintenance	3		
Instrumentation and Control	3		

<sup>1</sup> By Advisement of the Curriculum Chair.