

**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:**  
\_\_\_\_\_

| 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 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 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 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:

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

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