## AAS: Energy Systems

Curriculum Chair: Professor Richard VanInwegan
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Location: Tech T24 Telephone: (914) 606-6877 ADVISOR NAME:

## Developmental Courses as required based on placement scores

## No Developmental Courses Required

ENG 91 Writing for College 1 - Score of 4 E Code 1 and below
ENG 92 Writing for College 2 - Score of 6 E Code 2
ESL 94 Academic Writing 1 - Score of 5 or 6 E Code 6
ESL 122 Academic Writing 2 (3 credits) - Score of 7 E Code 7
MATH 92 Pre-Algebra - Arithmetic score 44 and below, Elementary Algebra 54 and below
MATH 93 Beginning Algebra - Arithmetic score 45 and above, Elementary Algebra 54 and below OR
MATH 94 Math Literacy - Arithmetic score 45 and above, Elementary Algebra 54 and below
READ 93 Foundation of College Reading - Score of 57 and below
READ 105 Analytical Reading (3 credits) - Score of 58 and higher

| Core Requirements |  |
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| $\square$ | ENG 101 - Writing and Research Choose an item. |
| $\square$ | ENG 102 - Writing and Literature Choose an item. |
| $\square$ | MATH 135 - College Algebra with Trigonometry Choose an item. |
| $\square$ | MATH 161 - Pre-Calculus Choose an item. |
| $\square$ | PHYSC 123 - College Physics 1: MATH 135 is the prerequisite. Choose an item. |
| $\square$ | CHEM 107 - Inorganic Chemistry 1: MATH 130, 135 or higher level are the prerequisites. OR Choose an item. |
|  | ELEC 160 - Electronics ${ }^{1}$ : High School Algebra or MATH 93 is the prerequisite. Choose an item. |
| $\square$ | BEHAVORIAL SCIENCE: Choose a 3 credit course from 2 areas for a total of 6 credits. <br> Courses include: Sociology (SOC), Psychology (PSYCH), Anthropology (ANTHR), Linguistics (ANTHR), and Geography (GEOG). However SS 101 and SS 103 CANNOT BE USED TO FULFILL Behavioral Science. OR HUMANITIES: <br> Courses include: <br> - Art (ART) 101, 103, 105, 108, 108A, 108B, 109, 109A, 125, 128, 129, 133, 139, 185, or 265. Additional fees and/or supplies may be required of ART classes; see catalog for details. <br> - Communications (COMM) 101, 103, 109, or 115 <br> - Dance (DANCE) 101, 102, 105, 107, 121, 205, or 207 OR <br> A combination of three 1 credit dance classes to be chosen from DANCE 112, 115, 120, or 122 <br> - English (ENG) any ENG course EXCEPT ENG 101, 101H, 102, 102H, 124, or 222 CANNOT BE USED TO FULFILL Humanities elective. <br> - Film (FILM) 100, 101, 102, 103, 109, 113, 114H, 115H, 125, 125H, 220, 220H <br> - Foreign Language to be chosen from: ARABC, CHINS, FREN, GER, ITAL, JAPNS, RUSSN, SPAN. ITAL 104 or ITAL 105 CANNOT BE USED TO FULFILL a Foreign Language elective, but CAN BE USED TO FULFILL a Humanities elective. <br> - Music (MUSIC) 100, 101, 102, 103, 111, 150, or 211 |

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State University of New York

|  | - Philosophy (PHIL) 101A, 102A, 111, 150, 160, or 201 H <br> - Theater (THEAT) 101, 103, 111, 113, or 201 <br> THEAT 117A is a 2 credit course which must be combined with another 1 credit approved Humanities elective. OR <br> SOCIAL SCIENCE: <br> Courses include: History (HIS), Political Science (POLSC), Economics (ECON), and Geography (GEOG). However SS 102 and SS 105 CANNOT BE USED TO FULFILL Social Science. |  |
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| 3 $\square$ / 4 $\square$ | 3 $\square$ / 4 $\square$ |  |
| $\square$ | PEC/PEH/PES: A combination of two courses (2 credits) ei PEC and PEC. PEC 110 (2 credits) IS THE ONLY COMBIN | her PEH and PES, or PEC and PES, or PEC or PEH, ATION COURSE THAT FULFILLS BOTH P.E. REQS. |
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| Degree Requirements |  |  |  |  |
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| $\square$ | PHYSC 165- Principles of Energy $\quad$ Choose an item. |  |  |  |
| $\square$ | ELEC 128 - Electrical Circuits: High School Algebra or MATH 93 is the prerequisite. Choose an item. |  |  |  |
| $\square$ | ELEC 129 - Digital Logic: High School Algebra or MATH 93 is the prerequisite. Choose an item. |  |  |  |
| $\square$ | ELEC 134 - Power Circuit Analysis Choose an item. |  |  |  |
| $\square$ | MECH 162 - CAD 1 Choose an item. |  |  |  |
| $\square$ | ELEC 218 - Introduction to Microprocessors Choose an item. |  |  |  |
| $\square$ | MECH 127 - Introduction to Thermodynamics: MATH 135 is the prerequisite. PHYSC 111 is a co-requisite. <br> Choose an item. |  |  |  |
| $\square$ | MECH 120 - Mechanisms: MATH 135, PHYSC 101, MECH 113, and MECH 162 are prerequisites. Offered in <br> Spring semester. Choose an item. |  |  |  |
| $\square$ | ENERGY ELECTIVES: Select 4 courses from the following (See Below) - (12 credits) |  |  |  |
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## Energy Electives

Nuclear Power: ELEC 245 - Nuclear Fundamentals, ELEC 246 - Reactor Materials, ELEC 247 - Radiation Detection, ELEC 248 -
Reactor Theory
Electrical Power: ELEC 204 - Electrical Machinery (ELECT 128 is the prerequisite), ELEC 205 - Power Generation Systems (MECH 204 is the prerequisite), ELEC 206 - Power plant Operation and Maintenance, ELEC 207 - Instrumentation and Control Systems
Electrical Power Distribution: ELEC 228 - Energy Conversion \& Power, ELEC 229 - Distribution Systems Components, ELEC 230 - Transmission Line Theory and Practice
Solar and Geothermal Power: ELEC 139 - Solar and Geothermal Technologies (MECH 127 is the prerequisite).


[^0]:    ${ }^{1}$ By Advisement of the Curriculum Chair.

