## AS: Engineering Science

Curriculum Chair: Professor John Collins<br>Email: John.Collins@sunywcc.edu<br>Location: TECH-106 Telephone: (914) 606-6941 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 181 ${ }^{1}$ - Calculus 1: MATH 161 or 165 are the prerequisites. Choose an item. |
| $\square$ | MATH 191 - Calculus 2: MATH 181 is the prerequisite. Choose an item. |
| $\square$ | MATH 230 - Calculus 3: MATH 191 is the prerequisite. Choose an item. |
| $\square$ | MATH 240 - Differential Equations: MATH 191 is the prerequisite. Choose an item. |
| $\square$ | PHYSC 121 - Engineering Physics 1 and Lab: MATH 161 is the prerequisite and MATH 181 is a co-requisite. Choose an item. |
| $\square$ | PHYSC 122 - Engineering Physics 2 and Lab: PHYSC 121 or equivalent and MATH 181 are the prerequisite and MATH 191 or instructor's permission is a co-requisite. Choose an item. |
| $\square$ | CHEM 107 - Inorganic Chemistry 1 and Lab: MATH 130, $\mathbf{1 3 5}$ or higher level MATH course are the prerequisites. Choose an item. |
| $\square$ | CHEM $111^{2}$ - Inorganic Chemistry 2 and Lab: CHEM 107, MATH 130, 135 or higher level MATH course are the prerequisites. Choose an item. |
| $\square$ | HUMANITIES: One course ( 3 credits) <br> Courses include: <br> - $\operatorname{Art}$ (ART) $101,103,105,108,108 \mathrm{~A}, 108 \mathrm{~B}, 109,109 \mathrm{~A}, 125,128,129,133,139,185$, 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) $100,101,102,103,109,113,114 \mathrm{H}, 115 \mathrm{H}, 125,125 \mathrm{H}, 220,220 \mathrm{H}$ |

[^0]|  | - 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 <br> - Philosophy (PHIL) 101A, 102A, 111, 150, 160, or 201H <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. |  |
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| 3 $\square$ / 4 $\square$ |  |  |
| $\square$ | SOCIAL SCIENCE: One course ( 3 credits) <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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| $\square$ | BEHAVORIAL SCIENCE: One course ( 3 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. |  |
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| $\square$ | PEC/PEH/PES: A combination of two courses (2 credits) either PEH and PES, or PEC and PES, or PEC or PEH, PEC and PEC. PEC 110 (2 credits) IS THE ONLY COMBINIATION COURSE THAT FULFILLS BOTH P.E. REQS. |  |
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## Degree Requirements



## NOTES:

- Chemical - See Curriculum Chair
- Civil \& Mechanical should take MECH 227: Dynamics: (Prerequisite MECH 126: Statics), CIVIL 221: Strength of Materials: (Prerequisite MATH 181: Calculus 1 and PHYSC 101A: Engineering Physics 1), plus 3 additional credits. See Curriculum Chair.
- Electrical should take ELEC 224 Network Transformations (4 credits), ELEC 255: Circuits for Engineers: (Co-Requisite MATH 165: Technical Math w Calculus), plus 3 additional credits. See Curriculum Chair.


[^0]:    ${ }^{1}$ Calculus I is the prerequisite or co requisite Engineering Physics I \& Lab.
    ${ }^{2}$ Inorganic Chemistry or an approved substitute.

