

PROGRAM: AS ENGINEERING SCIENCE

Division: Mathematics, Engineering and Physical Sciences
TECH-129 (914) 606-6788

71 Credits

Curriculum Chair

Professor John Collins

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TECH-106

Telephone: (914) 606-6941

Reviewed By: _____

Date: _____

Approved By Chairperson/Dean: _____

Course #	SEMESTER 1	Credits	✓
<i>ENG 101</i>	<i>Composition & Literature 1</i>	3	
<i>MATH 181</i>	<i>Calculus 1¹</i>	4	
<i>PHYS 121</i>	<i>Engineering Physics 1 and Engineering Physics 1 Lab¹</i>	5	
<i>CHEM 107</i>	<i>Inorganic Chemistry 1 and Inorganic Chemistry 1 Lab</i>	5	

Course #	SEMESTER 2	Credits	✓
<i>ENG 102</i>	<i>Composition & Literature 2</i>	3	
<i>MATH 191</i>	<i>Calculus 2</i>	4	
<i>PHYS 122</i>	<i>Engineering Physics 2 and Engineering Physics 2 Lab</i>	5	
<i>CHEM 111</i>	<i>Inorganic Chemistry 2² and Inorganic Chemistry 2 Lab</i>	5	
COMSC 101	Computer Programming I	3	

Course #	SEMESTER 3	Credits	✓
<i>MATH 230</i>	<i>Calculus 3</i>	4	
MECH 126	Statics	3	
MECH 113	Engineering Drawing 1 or	2	
MECH 162	CAD 1	3	
	Engineering Elective- _____	3	
	<i>Humanities-</i> _____	3	
	<i>PE (fitness)-</i> _____	1	

Course #	SEMESTER 4	Credits	✓
<i>MATH 240</i>	<i>Differential Equations</i>	4	
	Engineering Elective- _____	3	
	Engineering Elective- _____	3	
	<i>Behavioral-</i> _____	3	
	<i>Social Science-</i> _____	3	
	<i>PE (sport)-</i> _____	1	

Bold italic items are Core Requirements.

NOTES:

Chemical - See Curriculum Chair

Civil & Mechanical should take Dynamics, Strength of Materials, plus 3 additional credits. See Curriculum Chair.

Electrical - Passive and Active and Lab; plus 6 additional credits. See Curriculum Chair.

- ***Behavioral Science*** courses include Sociology, Psychology, Anthropology and Geography. General Psychology is the prerequisite for all upper level psychology courses.
- ***Social Science*** courses include History, Political Science, Economics and Geography.
- ***Humanities*** courses include Art, Dance, Drama, Music, Foreign Language, Film, Philosophy, Theater and Photography at ARTWS.

¹ Calculus I is the prerequisite or co requisite Engineering Physics I & Lab.

² **Inorganic Chemistry or an approved substitute**