

PROGRAM: AS ENGINEERING SCIENCE

Division: Math, Computer, Engineering & Physical Sciences & Technologies
TECH-106 (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 w 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 w 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 162/ 255	CAD Or Solidworks	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 **MECH 227**: Dynamics – Pre-Req **MECH 126**: Statics, , **CIVIL 221**: Strength of Materials – Pre-Req **MATH 181**: Calculus 1 and **PHYS 101A**: Engineering Physics 1, plus 3 additional credits. **See Curriculum Chair.**
- **Electrical** should take **ELECT 224** Network Transformations (4 credits), **ELECT 255**: Circuits for Engineers – Co-Req **MATH 165**: Technical Math w Calculus; plus 3 additional credits. **See Curriculum Chair.**
- **Social Science** courses include History (HIS), Political Science (POLSC), Economics (ECON) and Geography (GEOG).
- **Behavioral Science** courses include Sociology (SOC), Psychology (PSYCH), Anthropology (ANTHR) and Geography (GEOG). General Psychology is the prerequisite for all upper level psychology courses.
- **Choose ONLY those courses whose descriptions are labeled as “humanities credits” from:** ART, DANCE, ENG, MUSIC, FILM, THEAT, ARABC, CHINS, FREN, GER, ITAL, JAPNS, RUSSN, SPAN, PHIL.

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

² **Inorganic Chemistry or an approved substitute**