

AS: Engineering Science
Curriculum Chair: Prof. John Collins TECH-136 Tel # (914) 606-6941 Email: John.Collins@sunywcc.edu Associate Dean: Ted Nygreen TECH-106 Tel # (914) 606-6789 Email: Ted.Nygreen@sunywcc.edu

	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				
3□	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				
3□	READ 105 Analytical Reading (3 credits) – Score of 58 and higher				

	Core Requirements						
3□	ENG 101 – Writing and Research Choose an item.						
3□	ENG 102 – Writing and Literature Choose an item.						
4□	MATH 181 ¹ – Calculus 1: MATH 161 or 165 are the prerequisites. Choose an item.						
4□	MATH 191 – Calculus 2: MATH 181 is the prerequisite. Choose an item.						
4□	MATH 230 – Calculus 3: MATH 191 is the prerequisite. Choose an item.						
4□	MATH 240 – Differential Equations: MATH 191 is the prerequisite. Choose an item.						
5□	PHYSC 121 – Engineering Physics 1 and Lab: MATH 161 is the prerequisite and MATH 181 is a co-requisite. Choose an item.						
5□	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.						
4□	CHEM 107 – Inorganic Chemistry 1 and Lab: MATH 130, 135 or higher level MATH course are the prerequisites. Choose an item.						
4□	CHEM 111 ² – Inorganic Chemistry 2 and Lab: CHEM 107, MATH 130, 135 or higher level MATH course are the prerequisites. Choose an item.						
	HUMANITIES: One course (3 credits)						
	 Courses include: 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. Communications (COMM) 101, 103, 109, or 115 Dance (DANCE) 101, 102, 105, 107, 121, 205, or 207 OR						
	■ Film (FILM) 100, 101, 102, 103, 109, 113, 114H, 115H, 125, 125H, 220, 220H						

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

² Inorganic Chemistry or an approved substitute.



	 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 							
	■ Music (MUSIC) 100, 101, 102, 103, 111, 150, or 211							
	 Philosophy (PHIL) 101A, 102A, 111, 150, 160, or 201H 							
	• Theater (THEAT) 101, 103, 111, 113, or 201							
	THEAT 117A is a 2 credit course which must be combined with another 1 credit approved Humanities elective.							
3□ / 4□								
	SOCIAL SCIENCE: One course (3 credits)							
	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.							
3□								
	BEHAVORIAL SCIENCE: One course (3 credits)							
	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.							
3□								
	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) <i>IS THE ONLY COMBINIATION COURSE THAT FULFILLS BOTH P.E. REQS</i> .							
1□	1□							

	Degree Requirements						
3□	MECH 162 – CAD 1 OR Choose a	item.					
	MECH 255 – Solidworks Choose a	item.					
3□	COMSC 101 – Computer Programming 1: MATH 130, 135, 161, 181 or 191are the prerequisites. Choose an item.						
3□	MECH 126 – Statics: MATH 181 and PHYSC 121 are the prerequisites. Choose an item.						
	ENGINEERING ELECTIVES: Select three courses from list below (9 credits)						
3□		3□					
3□							

SEEN BY: Completed credits of 71 required 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.



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Academic Plan			Completed	credits of 71 requ	of 71 required	
		Fall/Spring		Fall/Spring		
Class	Credits	Class	Credits	Class	Credits	
Fall/Spring		Fall/Spring				
Class	Credits	Class	Credits	Class	Credits	