WESTCHESTER COMMUNITY COLLEGE					SUNY Polytechnic Institute				
Degree: A.S.					Degree: Bachelor of Science				
Program	of Study:	Engineering Science			Progr	Program of Study: Civil Engineering			
Course	Course				Course	Course			CR. APPLY TO
Prefix	Number	Title	Cr.	√	Prefix	Number	Title	Cr.	4 YR. DEGREE
CODE DE	OLUDENAEN	T-C							
	QUIREMEN					101	G ::		1
ENG	101	Writing and Research	3		ENG	101	Composition	3	Yes
ENG	102	Writing and Literature	3		HUM	1	Humanities Gen Ed	3	Yes
MATH	181	Calculus 1	4		MAT	151	Calculus I	4	Yes
MATH	191	Calculus 2	4		MAT	152	Calculus II	4	Yes
MATH	230	Calculus 3	4		MAT	253	Calculus III	4	Yes
MATH	240	Differential Equations	4		MAT	260	Differential Equations	4	Yes
CHEM	107	Inorganic Chemistry 1 (and Lab)	5		CHE	130	Introductory Chemistry I	4	Yes
PHYSC	121	Engineering Physics 1 (and Lab)	5		PHY	201	Physics I	4	Yes
PHYSC	122	Engineering Physics 2 (and Lab)	5		PHY	202	Physics II	4	Yes
		Social Sciences, see SUNY Gen. Ed.				1	Social Sciences elective		
		Courses	3		SOS	1	Social Sciences elective	3	Yes
							American History, The Arts,		
							Foreign Language, Other World		
		American History, The Arts, Foreign					Civilizations, Western Civilization-		
		Language, Other World Civilizations,					see SUNY Gen. Ed. courses (Select		
		Western Civilization- see SUNY Gen.					ONE course)		
		Ed. courses (Select ONE course)	3		43		ONE course)	3	Yes
DEGREE I	REQUIREM	ENTS							
COMSC	101	Computer Programming 1	4				Open ASCI Elective	4	
MECH	109	Intro to Engineering	3		ESC	110	Intro to Engineering	3	Yes
MECH	126	Statics	3		ESC	210	Engineering Mechanics: Statics	3	Yes
		Solost ONE of the following FOLIP							
		Select ONE of the following FOUR paths to complete the remaining							
		degree requirements:							
		Engineering Science (No	12		12	#VALUE!			
CIV (III	24.4	Concentration)	12		12				
CIVIL	214	Surveying 1							
CIVIL	221	Strength of Materials Computer Programming 2							
COMSC	110	Data Structures							
COMSC	201	Electrical Circuits							
ELEC ELEC	128								
ELEC	129	Digital Logic							†
ELEC	223	Digital Logic and Switching Circuits							
ELEC	227	Electrical System Analysis							
ELEC	255	Circuits for Engineers							
LLLC	233	Circuits for Engineers							
MECH	127	Introduction to Thermodynamics							
MECH	227	Dynamics			1				
	/	Civil Engineering Concentration	9						
CIVIL	214	Surveying 1			CE	210	Elementary Surveying	3	Yes
CIVIL	221	Strength of Materials			ESC	230	Mechanics of Materials	3	Yes
				1			Engineering Mechanics-		
MECH	227	Dynamics			ESC	240	Dynamics	3	Yes
	•	and select ONE of the following					Students can selesct from the two		1
		,	1		-	#VALUE!			I

		D:							
BIOL	404	Principles of Biological Science (and		l I.	D10	101	Biology I	4	
BIOL	101	Lab)		H	BIO			4	
01153.4		Inorganic Chemistry 2 (and Lab) (5				131	Introductory Chemistry II		
CHEM	111	credits)			CHE			4	
PHYSC	143	Earth Science (and Lab)							
		Electrical Engineering							
		Concentration	14		14	#VALUE!			
51.50	222								
ELEC	223	Digital Logic and Switching Circuits							
ELEC	227	Electrical System Analysis							
ELEC	255	Circuits for Engineers		Н					
MATH	215	Linear Algebra		Н					
		Mechanical Engineering	4.2		4.2	(1) (4) 1151			
60.41	224	Concentration	12	Н	12	#VALUE!			
CIVIL	221	Strength of Materials		Н					
ELEC	255	Circuits for Engineers		Н					
N 45 C	4.27	Introduction to Theorem 1							
MECH	127	Introduction to Thermodynamics		\vdash					
MECH	227	Dynamics		Н					
TOTAL				H				67	
NOTES:						. ,			
		iton "gen. ed." course options are loca	ted at	www	v.sunywcc.e	edu/gened			
Minimum	1 Total Cre	edits = 65							
					Year 3	FGG 120	D : m ! !D		
						ESC 120	Design Tools and Processes	3	
							General Ed.	4	
							General Ed.	4	
						CE 230	Civil Engineering Materials	3	
						CE 220	Professionalism	2	
						CE 330	Fluid Mechanics	3	
						CE 301	Structural Engineering	4	
						CE 302	Transportation Engineering	3	
						CE 303	Environmental Engineering	4	
						CE 304	Geotechnical Engineering	3	
				l ,	Year 4		5 8	'	
						260 or ME	Pick One	3	
							CE Emphasis 1	3	
						CE335	Water Rescourse Engineering	3	
						CE 480	Capstone Design 1	3	
				\vdash		CL 400	CE Emphasis 2	3	
				\vdash			CL Emphasis 2	,	
				1 1		CE 481	Canatana Dasian 2	3	
				┨		CE 481	Capstone Design 2	3	
				┥			CE Upper Elective		
				\sqcup			Open Elective	3	
				\sqcup			Open Elective	3	
				\square		COM 306	Upper division writing	4	
							Total	64	
1				1 1		N	feed 1 more course to make up 12	28	