Westchester Community College			SUNY Polytechnic					
Course #	Course Title	Credits	Course #	Equivalent Course Title	Credits Accepted			
Year One- Fall			Year One- Fall		recepted			
ENG 101	Writing and Research	3	ENG 101	Freshman Composition	3			
MATH 181	Calculus 1	4	MAT 151	Calculus I	4			
CHEM 107	Inorganic Chemsitry	3	CHE 130	General Chemistry	3			
CHEM 107L	Inorganic Chemsitry Lab	1	CHE 130L	General Chemistry Lab	1			
PHYSC 121	Engineering Physics I	5	PHY 201	Calc-Based Physics I	5			
Year One-Spring	Engineering 1 hydred 1		1111 201		J			
Tem One Spring								
ENG 102	Writing and Literature	3	HUM 001	Humanities - General Education Elective #1	3			
MAT 191	Calculus 2	4	MAT 152	Calculus II	4			
PHYSC 122	Engineering Physics II	5	PHY 202	Calc-Based Physics II	5			
111150 122	Engineering Physics II			Introduction to Electrical and Computer				
MECH 109	Introduction to Engineering	3	ECE 101	Engineering	3			
ELEC 223	Technical Elective - Digital Logic	4	ECE 251	Digital Logic	4			
Year Two- Fall	Technical Elective - Digital Eogic	-4	ECE 231	Digital Eogic	4			
Tear Two- raii				Calculus III (Required for EE				
			MAT 052					
MAT 240	0.1.1.2		MAT 253	concentration or Prof Elective for CE				
MAT 240	Calculus 3	4		concentration)	4			
Social Science	General Education Social Science	3		Social Science General Education #2	3			
COMSC 101**	Computer Programming 1	3	CS 108	Introduction to Programming	3			
A PERCENTAGE	0	2	E00.010	Engineering Mechanics - Statics (Count	2			
MECH 126	Statics	3	ESC 210	towards Professional Elective	3			
Year Two- Spring				2 11 2 12 1 1 1 1 1 1 1				
				Ordinary Differential Equations and Series				
MAT 240	Differential Equations	4	MAT 260	Solns	4			
COMSC 201	Data Structures	4	CS 240	Data Structures	4			
	General Education	3		General Education #3	3			
ELEC 255	Circuits for Engineers	3	ECE 260	Electrical Circuits	3			
MAT 215	Linear Algebra	3	MAT 280	Linear Algebra (Professional Elective)	3			
Year Three-Fall				Electrical Engineering Concentration			omputer Engineering Concentration	
			ECE 301	Signals and Systems	4	ECE 301	Signals and Systems	4
			ECE 315	Electronics I	4	ECE 315	Electronics I	4
			ECE 252	Microprocessors	4	ECE 252	Microprocessors	4
			ECE 332	Semiconductors Devices	3	MAT 370	Applied Probability	4
			ECE 281	ECE Seminar I	1	ECE 281	ECE Seminar I	1
				ECE Seminar II	1			
			ECE 382	ECE Schillar II				
Year Three-Spring								
Year Three-Spring			MAT 370	Applied Probability	4	MAT 413	Discrete Math	4
Year Three-Spring			MAT 370 ECE 387	Applied Probability Junior Design Lab	4 3	ECE 387	Junior Design Lab	3
Year Three-Spring			MAT 370 ECE 387 ECE 361	Applied Probability Junior Design Lab Controls Systems	4 3 4	ECE 387 ECE 359	Junior Design Lab Computer Networks	3
			MAT 370 ECE 387	Applied Probability Junior Design Lab	4 3	ECE 387	Junior Design Lab	3
Year Three-Spring Year Four- Fall			MAT 370 ECE 387 ECE 361	Applied Probability Junior Design Lab Controls Systems Communications	4 3 4 3	ECE 387 ECE 359 COM 306	Junior Design Lab Computer Networks Upper Division Writing	3 3 4
			MAT 370 ECE 387 ECE 361 ECE 377	Applied Probability Junior Design Lab Controls Systems Communications General Education #4	4 3 4 3	ECE 387 ECE 359 COM 306 ECE 351	Junior Design Lab Computer Networks Upper Division Writing Digital System Design	3 3 4
			MAT 370 ECE 387 ECE 361 ECE 377	Applied Probability Junior Design Lab Controls Systems Communications General Education #4 ECE Technical Elective	4 3 4 3 4 3	ECE 387 ECE 359 COM 306 ECE 351 ECE 3xx	Junior Design Lab Computer Networks Upper Division Writing Digital System Design ECE Technical Elective	3 3 4 4 3
			MAT 370 ECE 387 ECE 361 ECE 377 ECE 3xx ECE 487	Applied Probability Junior Design Lab Controls Systems Communications General Education #4 ECE Technical Elective Senior Design Lab 1	4 3 4 3 4 3 4	ECE 387 ECE 359 COM 306 ECE 351 ECE 3xx ECE 487	Junior Design Lab Computer Networks Upper Division Writing Digital System Design ECE Technical Elective Senior Design Lab I	3 3 4 4 3 4
			MAT 370 ECE 387 ECE 361 ECE 377	Applied Probability Junior Design Lab Controls Systems Communications General Education #4 ECE Technical Elective Senior Design Lab I Upper Dvision Writing	4 3 4 3 4 3	ECE 387 ECE 359 COM 306 ECE 351 ECE 3xx	Junior Design Lab Computer Networks Upper Division Writing Digital System Design ECE Technical Elective Senior Design Lab I ECE Seminar II	3 3 4 4 3 4
			MAT 370 ECE 387 ECE 361 ECE 377 ECE 3xx ECE 487	Applied Probability Junior Design Lab Controls Systems Communications General Education #4 ECE Technical Elective Senior Design Lab 1	4 3 4 3 4 3 4	ECE 387 ECE 359 COM 306 ECE 351 ECE 3xx ECE 487	Junior Design Lab Computer Networks Upper Division Writing Digital System Design ECE Technical Elective Senior Design Lab I ECE Seminar II General Education #4	3 3 4 4 3 4
			MAT 370 ECE 387 ECE 361 ECE 377 ECE 3xx ECE 487	Applied Probability Junior Design Lab Controls Systems Communications General Education #4 ECE Technical Elective Senior Design Lab I Upper Dvision Writing	4 3 4 3 4 3 4 4	ECE 387 ECE 359 COM 306 ECE 351 ECE 3xx ECE 487	Junior Design Lab Computer Networks Upper Division Writing Digital System Design ECE Technical Elective Senior Design Lab I ECE Seminar II	3 3 4 4 3 4
			MAT 370 ECE 387 ECE 361 ECE 377 ECE 3xx ECE 487	Applied Probability Junior Design Lab Controls Systems Communications General Education #4 ECE Technical Elective Senior Design Lab I Upper Dvision Writing	4 3 4 3 4 3 4 4	ECE 387 ECE 359 COM 306 ECE 351 ECE 3xx ECE 487	Junior Design Lab Computer Networks Upper Division Writing Digital System Design ECE Technical Elective Senior Design Lab I ECE Seminar II General Education #4	3 3 4 4 3 4
Year Four- Fall			MAT 370 ECE 387 ECE 361 ECE 377 ECE 377 ECE 487 COM 306	Applied Probability Junior Design Lab Controls Systems Communications General Education #4 ECE Technical Elective Senior Design Lab I Upper Dvision Writing	4 3 4 3 4 4 1	ECE 387 ECE 359 COM 306 ECE 351 ECE 351 ECE 3xx ECE 487 ECE 382	Junior Design Lab Computer Networks Upper Division Writing Digital System Design ECE Technical Elective Senior Design Lab I ECE Seminar II General Education #4	3 3 4 4 3 4 1 1 4
Year Four- Fall			MAT 370 ECE 387 ECE 361 ECE 377 ECE 377 ECE 377 COM 306	Applied Probability Junior Design Lab Controls Systems Communications General Education #4 ECE Technical Elective Senior Design Lab I Upper Dvision Writing REC or FIT Senior Design Lab II Electromagnetics	4 3 4 3 4 3 4 4 1	ECE 387 ECE 359 COM 306 ECE 351 ECE 381 ECE 487 ECE 382	Junior Design Lab Computer Networks Upper Division Writing Digital System Design ECE Technical Elective Senior Design Lab I ECE Seminar II General Education #4 REC or FIT	3 3 4 4 3 4 1 4
Year Four- Fall			MAT 370 ECE 387 ECE 361 ECE 377 ECE 377 ECE 487 COM 306	Applied Probability Junior Design Lab Controls Systems Communications General Education #4 ECE Technical Elective Senior Design Lab I Upper Division Writing REC or FIT Senior Design Lab II	4 3 4 3 4 4 1	ECE 387 ECE 359 COM 306 ECE 351 ECE 351 ECE 3xx ECE 487 ECE 382	Junior Design Lab Computer Networks Upper Division Writing Digital System Design ECE Technical Elective Senior Design Lab I ECE Seminar II General Education #4 REC or FIT Senior Design II	3 3 4 4 3 4 1 1 4
Year Four- Fall			MAT 370 ECE 387 ECE 361 ECE 377 ECE 377 ECE 377 ECE 487 COM 306	Applied Probability Junior Design Lab Controls Systems Communications General Education #4 ECE Technical Elective Senior Design Lab I Upper Dvision Writing REC or FIT Senior Design Lab II Electromagnetics	4 3 4 3 4 4 1	ECE 387 ECE 359 COM 306 ECE 351 ECE 35x ECE 487 ECE 382 ECE 488 ECE 352	Junior Design Lab Computer Networks Upper Division Writing Digital System Design ECE Technical Elective Senior Design Lab I ECE Seminar II General Education #4 REC or FIT Senior Design II Computer Architecture	3 3 4 4 3 4 1 4 1 4 3
Year Four- Fall			MAT 370 ECE 387 ECE 361 ECE 377 ECE 377 ECE 377 ECE 487 COM 306	Applied Probability Junior Design Lab Controls Systems Communications General Education #4 ECE Technical Elective Senior Design Lab I Upper Dvision Writing REC or FIT Senior Design Lab II Electromagnetics ECE Technical Elective	4 3 4 3 4 3 4 1 1	ECE 387 ECE 359 COM 306 ECE 351 ECE 351 ECE 487 ECE 487 ECE 382 ECE 488 ECE 352 ECE 352	Junior Design Lab Computer Networks Upper Division Writing Digital System Design ECE Technical Elective Senior Design Lab I ECE Seminar II General Education #4 REC or FIT Senior Design II Computer Architecture ECE Technical Elective	3 3 4 4 3 4 1 4 1 4 3 3 3
Year Four- Fall			MAT 370 ECE 387 ECE 361 ECE 377 ECE 377 ECE 377 ECE 487 COM 306	Applied Probability Junior Design Lab Controls Systems Communications General Education #4 ECE Technical Elective Senior Design Lab I Upper Dvision Writing REC or FIT Senior Design Lab II Electromagnetics ECE Technical Elective REC or FIT	4 3 4 3 4 4 1 1	ECE 387 ECE 359 COM 306 ECE 351 ECE 351 ECE 487 ECE 487 ECE 382 ECE 488 ECE 352 ECE 352	Junior Design Lab Computer Networks Upper Division Writing Digital System Design ECE Technical Elective Senior Design Lab I ECE Seminar II General Education #4 REC or FIT Senior Design II Computer Architecture ECE Technical Elective Operating Systems	3 3 4 4 3 4 1 4 1 4 1 3 3 4 4 1
Year Four- Fall			MAT 370 ECE 387 ECE 361 ECE 377 ECE 377 ECE 377 ECE 487 COM 306	Applied Probability Junior Design Lab Controls Systems Communications General Education #4 ECE Technical Elective Senior Design Lab I Upper Dvision Writing REC or FIT Senior Design Lab II Electromagnetics ECE Technical Elective REC or FIT	4 3 4 3 4 4 1 1	ECE 387 ECE 359 COM 306 ECE 351 ECE 351 ECE 487 ECE 487 ECE 382 ECE 488 ECE 352 ECE 352	Junior Design Lab Computer Networks Upper Division Writing Digital System Design ECE Technical Elective Senior Design Lab I ECE Seminar II General Education #4 REC or FIT Senior Design II Computer Architecture ECE Technical Elective Operating Systems REC or FIT	3 3 4 4 3 4 1 1 4 3 3 3 4 1 1
Year Four- Fall		65	MAT 370 ECE 387 ECE 361 ECE 377 ECE 377 ECE 377 ECE 487 COM 306	Applied Probability Junior Design Lab Controls Systems Communications General Education #4 ECE Technical Elective Senior Design Lab I Upper Dvision Writing REC or FIT Senior Design Lab II Electromagnetics ECE Technical Elective REC or FIT	4 3 4 3 4 4 1 1	ECE 387 ECE 359 COM 306 ECE 351 ECE 351 ECE 487 ECE 487 ECE 382 ECE 488 ECE 352 ECE 352	Junior Design Lab Computer Networks Upper Division Writing Digital System Design ECE Technical Elective Senior Design Lab I ECE Seminar II General Education #4 REC or FIT Senior Design II Computer Architecture ECE Technical Elective Operating Systems REC or FIT	3 3 4 4 3 4 1 1 4 3 3 3 4 1 1
Year Four- Fall		65	MAT 370 ECE 387 ECE 361 ECE 377 ECE 377 ECE 377 ECE 487 COM 306	Applied Probability Junior Design Lab Controls Systems Communications General Education #4 ECE Technical Elective Senior Design Lab I Upper Dvision Writing REC or FIT Senior Design Lab II Electromagnetics ECE Technical Elective REC or FIT General Education #5***	4 3 4 3 4 4 4 1 1	ECE 387 ECE 359 COM 306 ECE 351 ECE 351 ECE 487 ECE 487 ECE 382 ECE 488 ECE 352 ECE 352	Junior Design Lab Computer Networks Upper Division Writing Digital System Design ECE Technical Elective Senior Design Lab I ECE Seminar II General Education #4 REC or FIT Senior Design II Computer Architecture ECE Technical Elective Operating Systems REC or FIT General Education #5***	3 3 4 4 3 4 1 1 4 1 4 1 3 3 4 1 4 1 1 4 1 1 1 1

^{*}ECE Program requires 1 professional elective for CE concentration and 2 professional electives for the EE concentration
** Requires CS department approval
***May be needed to complete 30 credit hrs of General Education Requirements