

Westchester Community College			SUNY Polytechnic		
Course #	Course Title	Credits	Course #	Equivalent Course Title	Credits Accepted
Year One- Fall			Year One- Fall		
ENG 101	Writing and Research	3	ENG 101	Freshman Composition	3
MATH 181	Calculus 1	4	MAT 151	Calculus I	4
CHEM 107	Inorganic Chemistry	3	CHE 130	General Chemistry	3
CHEM 107L	Inorganic Chemistry Lab	1	CHE 130L	General Chemistry Lab	1
PHYS 121	Engineering Physics I	5	PHY 201	Calc-Based Physics I	5
Year One-Spring			Year 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
PHYS 122	Engineering Physics II	5	PHY 202	Calc-Based Physics II	5
MECH 109	Introduction to Engineering	3	ECE 101	Introduction to Electrical and Computer Engineering	3
ELEC 223	Technical Elective - Digital Logic	4	ECE 251	Digital Logic	4
Year Two- Fall			Year Two- Fall		
MAT 240	Calculus 3	4	MAT 253	Calculus III (Required for EE concentration or Prof Elective for CE 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
MECH 126	Statics	3	ESC 210	Engineering Mechanics - Statics (Count towards Professional Elective)	3
Year Two- Spring			Year Two- Spring		
MAT 240	Differential Equations	4	MAT 260	Ordinary Differential Equations and Series 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			Year Three-Fall		
			Electrical Engineering Concentration		
			ECE 301	Signals and Systems	4
			ECE 315	Electronics I	4
			ECE 252	Microprocessors	4
			ECE 332	Semiconductors Devices	3
			ECE 281	ECE Seminar I	1
			ECE 382	ECE Seminar II	1
Year Three-Spring			Year Three-Spring		
			MAT 370	Applied Probability	4
			ECE 387	Junior Design Lab	3
			ECE 361	Controls Systems	4
			ECE 377	Communications	3
Year Four- Fall			Year Four- Fall		
				General Education #4	4
			ECE 3xx	ECE Technical Elective	3
			ECE 487	Senior Design Lab I	4
			COM 306	Upper Division Writing	4
				REC or FIT	1
				General Education #4	4
				REC or FIT	1
Year Four-Spring			Year Four-Spring		
			ECE 488	Senior Design Lab II	4
			ECE 323	Electromagnetics	3
			ECE 3xx	ECE Technical Elective	3
				REC or FIT	1
				General Education #5***	4
				General Education #5***	4
		65		Total Transfer Applied	65
				Total Remaining at SUNY POLY	62
				Total for Bachelors	127
			Computer Engineering Concentration		
			ECE 301	Signals and Systems	4
			ECE 315	Electronics I	4
			ECE 252	Microprocessors	4
			MAT 370	Applied Probability	4
			ECE 281	ECE Seminar I	1
			MAT 413	Discrete Math	4
			ECE 387	Junior Design Lab	3
			ECE 359	Computer Networks	3
			COM 306	Upper Division Writing	4
			ECE 351	Digital System Design	4
			ECE 3xx	ECE Technical Elective	3
			ECE 487	Senior Design Lab I	4
			ECE 382	ECE Seminar II	1
				General Education #4	4
				REC or FIT	1
			ECE 488	Senior Design II	4
			ECE 352	Computer Architecture	3
			ECE 3xx	ECE Technical Elective	3
				Operating Systems	4
			CS 330	Operating Systems	4
				REC or FIT	1
				General Education #5***	4
				General Education #5***	4
		65		Total Transfer Applied	65
				Total Remaining at SUNY POLY	67
				Total for Bachelors	129

\*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