

Onondaga Community College			SUNY Polytechnic		
Engineering Science			Civil Engineering		
Course #	Course Title	Credits	Course #	Equivalent Course Title	Credits Accepted
Year One- Fall			Year One- Fall		
ENG 103	Freshman Composition	3	ENG 101	Freshman Composition	3
MAT 161	Calculus 1	4	MAT 151	Calculus I	4
CHE 171	General Chemistry	3	CHE 130	General Chemistry	3
CHE 171L	General Chemistry Lab	1	CHE 130L	General Chemistry Lab	1
PHY 105	Physics 1 - Mechanics	4	PHY 201	Calc-Based Physics I	4
Year One-Spring			Year One-Spring		
ENG 104	Freshman Composition and Literature	3	HUM 001	Humanities - General Education Elective	3
MAT 162	Calculus 2	4	MAT 152	Calculus II	4
PHY 205	Physics 2 - E&M	4	PHY 202	Calc-Based Physics II	4
ENS 150	Introduction to Engineering	3	ESC 110	Introduction to Engineering	3
MET 260	Technical Elective - Introduction to CAD	4	ESC 120	Design tools and process (possibly, need academic petition)	4
Year Two- Fall			Year Two- Fall		
MAT 263	Calculus 3	4	MAT 253	Calculus III (Math Elective)	4
PHY 206	Physics 3 - Thermo and Waves	4	PHY 203	Calc-Based Physics III (Science Elective)	4
ENS 207	Engineering Mechanics - Statics	3	ESC 210	Engineering Mechanics - Statics	3
COM 210	Public Speaking	3	COM 200	Public Speaking (N/A to Program Requirements)	3
ENS 210	Technical Elective - Electrical Circuits Analysis	4	ECE 260	Electrical Circuits (Eng. Elective)	4
Year Two- Spring			Year Two- Spring		
MAT 264	Differential Equations	4	MAT 260	Ordinary Differential Equations and Series Solns	4
ENS 208	Engineering Mechanics - Dynamics	3	ESC 240	Engineering Mechanics - Dynamics (Eng. Elective)	3
CSC 111	Higher Programming Language - Fund of Computing	4	CS 108	Introduction to Programming (N/A to Program Requirements)	4
	General Education	3		General Education	3
ENS 212	Technical Elective - Mechanics of Materials	4	ESC 230	Strength of Materials	4
Year Three-Fall			Year Three-Fall		
			CE 301	Structural Engineering	4
			CE 302	Transportation Engineering	3
			CE 303	Environmental Engineering	4
			CE 304	Geotechnical Engineering	3
			CE 230	Civil Engineering Materials	3
Year Three-Spring			Year Three-Spring		
			CE 335	Water Resource Engineering	3
				CE Emphasis 1	3
			BIO XXX	General Ed. Biology	4
			CE 220	Professionalism	2
			CE 330	Fluid Mechanics	3
Year Four- Fall			Year Four- Fall		
			CE 480	Capstone Design 1	3
			COM 306	Upper Division Writing	4
				CE Emphasis 2	3
			CE 210	Elementary Surveying	3
				Gen Ed Elective	4
Year Four-Spring			Year Four-Spring		
			CE 481	Capstone Design 2	3
				CE Upper Elective	3
				Gen Ed Elective	4
		69		Total Transfer Applied	69
				Total Remaining at SUNY POLY	59
				Total for Bachelors	128