

Mohawk Valley Community College  
Engineering Science

SUNY Polytechnic Institute  
Civil Engineering

Course #	Course Title	SUNY Gen Ed	Credits Granted	Course #	Equivalent Course Title	SUNY Gen Ed	Credits Accepted
CF 100	College Foundation Seminar		1	FYS 100	First Year Seminar		(16.5)
CH141	General Chemistry 1	X	4	CHE 130	Introductory Chemistry I	X	4
CI140	Computer Programming for Engineers and Scientists		3	TECE 000	Technical Elective		3
EN101	English 1: Composition	X	3	ENG 101	Composition	X	3
ES151	Introduction to Engineering		2	ESC 110	Introduction to Engineering		2
MA151	Calculus 1	X	4	MAT 151	Calculus I	X	4
	Physical Education		.5	ELEC 000	Unrestricted Elective		0.5
	Core GE Social Science Elective (See "A" below)	X	3	SOS 001	Gen Ed Social Science	X	3
EN102	English 2: Ideas & Values in Literature	X	3	ENG 110	Intro to Literature--Open Elective	X	3
ES175	Engineering Science Design		3	ESC 120	Design Tools and Processes		3
MA152	Calculus 2	X	4	MAT 152	Calculus II	X	4
PH261	Engineering Physics 1	X	4	PHY 201	Physics I	X	4
	Physical Education		.5	ELEC 000	Unrestricted Elective		0.5
							(18)
ES271	Engineering Statics		3	ESC 210	Engineering Mechanics: Statics		3
ES291	Electrical Circuits 1		4	ECE 260	Electric Circuits ("pick two")		4
MA253	Calculus 3	X	4	MAT 253	Calculus III (MAT elective)	X	4
PH262	Engineering Physics 2	X	4	PHY 202	Calculus Based Physics II (Math/Science elective)	X	4
	Social Science Elective (See "A" below)	X	3	SOS 001	General Education-Social Science- Open Elective	X	3
	Physical Education		.5				
							(13)
MA260	Differential Equations	X	3	MAT 260	Ord Diff Eqtns & Series Sltns	X	3
ES261	Mechanics of Materials		3	ESC 230	Mechanics of Materials		3
ES272	Engineering Dynamics		3	ESC 240	Engineering Mechanics: Dynamics ("pick two")		3
CH 142	Restricted Elective (See "B" below).	X	3-4	CHE 131	Introductory Chemistry II	X	4
	Physical Education		.5				
							(17)
				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			(15)
				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			(17)
				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			(14)
				CE 481	Capstone Design 2		3
					CE Upper Elective		3
					Gen Ed Elective		4
					Gen Ed Elective		4
			<b>Total Credits Eligible for Transfer</b>				<b>66-67</b>
						<b>Total Transfer Credits Applied to Program</b>	<b>65</b>
						<b>Total Credits Required after Transfer</b>	<b>63</b>
						<b>Total Credits Required for Degree</b>	<b>128</b>

A.) Core GE Social Science Elective (choose two, one if which must be a bolded course): **AN 101, BM 101, PS 101, PY 101, SO 101, HI 101**

B.) Restricted Elective (choose one): CH 142, ES 281, ES 292, MA 280 or PH 263. Poly Recommends students choose CH 142-General Chemistry II which is a SUNY General Education-Natural Science course