

**SUNY Institute of Technology
BS/Civil Engr. Technology Program of Study**

Name	1/20/2012	Hudson Valley Community College	63
			Total
			63

I. Arts & Sciences - 60 Credits

A. Mathematics & Science

		TRANSFER		Bridge	Transferred	Required	
cr.	course	description					
Math. Coursework - 12 credits req'd							
	Calculus I ¹		3 - 4	[MAT 121]	0	4	
	Calculus II		3 - 4	[MAT 122]	0	4	
	Calc-Based Math		3 - 4	[MAT 225]	0	4	
Science Coursework - 12 credits req'd							
	Physics I with Lab	4 PHYS 135 Tech Physics I	4	[PHY 101]	4	0	
	Physics II with Lab	4 PHYS 136 Tech Physics II	4	[PHY 102]	4	0	
	Chemistry with Lab ²		4	[CHE 110]	0	4	
Math/Science Electives							
	4 MATH 165 Basic Calculus w/ Analytic Geometry		4 - 7	[MSCI 000]	4	0	
Totals:							
Math&Science					12	16	28

(24 min.)

B. Liberal Arts & Communications

At least 5 of the following 7 categories:

Social Science ³ (ANT/ECO/POS/PSY/SOC/STS)	3	Social Science Elective	2-4	[SOS 001]	3	0	
American History ⁴ (Some HIS)			2-4	[AMH 001]	0	4	
Western Civilization ⁵ (HIS 306, 370, GEN, some HIS)			2-4	[WCV 001]	0	2	
Other World Civilizations ⁶ (HIS 306,370, PHI 330)			2-4	[OCV 001]	0	2	
Humanities ⁷ (ART, COM, ENG, some HIS, PHI 350)	3	ENGL 204 American Literature I	2-4	[HUM 001]	3	0	
Arts ⁸ (COM315, ART, ENG305, MUS)		ASSUMED WAIVER	2-4	[ART 001]	0	0	
Foreign Language ⁹		ASSUMED WAIVER	2-4	[FLN 001]	0	0	
Communications-9 min. Upper Division Writing ¹⁰							
Oral Communication			3-4	[COM 306]	0	4	
Written Communications			3-4	[COM 300]	0	4	
	3	ENGL 101 Composition I	3-4	[ENG 101]	3	0	
Totals:							
LA & Comm.					9	16	25

(24 min.)

C. Computer Programming Language &

D. Arts and Science Electives

Computer Programming Language - 3 credits req'd			3-4	[CPRG 000]	0	4	
Arts and Science Electives							
	4	MATH 150 College Algebra and Trigonometry	8-9	[ASCI 000]	4	0	
Totals:							
CS&AS					4	4	8

A&S TOTAL **61**

(60 min.)

II. Technical Courses - 54 credits

Required Upper Level Courses

Professionalism			2	[CTC 301]	0	2
Structural Analysis			3-4	[CTC 320]	0	4
Water/Wastewat. Systems			3-4	[CTC 450]	0	4
Engineering Economics			3-4	[CTC 475]	0	4
Civil Emphasis I			3-4	[CTC 340/415/422]	0	4
Civil Emphasis II			3-4	[CTC 440/470/424]	0	4
Upper Civil Elective			3-4	[]	0	4
Capstone			3-4	[CTC 490]	0	3

Coverage in Knowledge Area (Some Courses above may count):

		Up to 33					
Computer Applications	2	CIVL 111 Civil Applications	2-4	[CTC 101]	25	0	
Statics	2	CIVL 112 Statics &	2-4	[STCS 000]			
Strength of Mat'l	2	CIVL 112a Strength of Materials	2-4	[STOM 000]			
Graphics	3	CIVL 110 Eng. Graphics	2-4	[EGRA 000]			
Surveying	4	CIVL 101 Surveying I	3-4	[SURV 000]			
Soils & Foundations	3	CIVL 213 Soils & Foundations	3-4	[SOAF 000]			
Conc. Or Steel Design	3	CIVL 210 Structures	2-4	[CEMT 000]			
Transportation	3	CIVL 234 Transportation Analysis	2-4	[TRAN 000]			
Hydrology	1	CIVL 212 Hydraulics and Drainage	1-4	[CTC 260]			
Hydraulics	2	CIVL 212a Hydraulics and Drainage	2-4	[CTC 261]			
Civil Electives				[CTC 000]			
Totals:							
Tech. Courses					25	29	54

(54 min.)

III. Open Electives

		Up to 14					
	13	Open Electives	varies	[ELEC 000]	13	0	
Totals:							
Open Electives					13	0	13

Summary of Transfer Hours:

	Transfer:	Required:	Total:
Math & Science Requirements	12	16	28
Liberal Arts Requirements	9	16	25
Comp. Prgrm. Lang + A/S Electives	4	4	8
Technical Coursework	25	29	54
Open Electives	13	0	13

TOTAL **63** **65** **128**