

TCNJ Civil Engineering Curriculum

FRESHMAN YEAR			
Fall		Spring	
Course	Course Units	Course	Course Units
MAT 127 Calculus A	1	MAT 128 Calculus B	1
PHY 201 General Physics I	1	PHY 202 General Physics II	1
ECO 101 Microeconomics	1	CIV 145 CAD	0.5
ENG 144 Fundamentals of Engineering Design	0.5	College Core Elective	1
ENG 95 Introduction to Engineering	0	IDS 252 SET	1
FYS	1	FYC 100 Community Engaged Learning	0
		IDS 102 Information Literacy Proficiency	0
Total	4.5	Total	4.5

SOPHOMORE YEAR			
Fall		Spring	
Course	Course Units	Course	Course Units
CHE 201 General Chemistry I	1	MAT 229 Multivariable Calculus	1
ENG 222 Statics	1	ENG 262 Dynamics	1
ENG 272 Advanced Engineering Mathematics I	1	CIV 251 Strength of Materials	1
College Core Elective	1	CIV 343 Engineering Probability and Statistics	1
		CIV 372 Construction Plans and Estimates	1
Total	4	Total	5

JUNIOR YEAR			
Fall		Spring	
Course	Course Units	Course	Course Units
ENG 93 Engineering Seminar III	0	ENG 94 Engineering Seminar IV	0
CIV 311 Structural Analysis	1	CIV 351 Structural Steel Design	1
CIV 331 Soil Mechanics	1	CIV 363 Fluid Measurement Laboratory	0.5
CIV 333 Soil Mechanics Laboratory	0.5	CIV 385 Hydraulic Engineering and Hydrology	1
CIV 361 Fluid Mechanics	1	CIV 431 Foundation Engineering	1
CIV 411 Transportation Engineering	1	CIV 471 Transportation Planning and Design	1
Total	4.5	Total	4.5

SENIOR YEAR			
Fall		Spring	
Course	Course Units	Course	Course Units
ENG 98 Fundamentals of Engineering Review	0	CIV 444 Intro to FE	1
ENG 99 Senior Professional Seminar	0	CIV 496 Senior Project II	0.5
CIV 371 Civil Engineering Materials and Structures	1	Advanced Topics in Civil Engineering	1
CIV 421 Reinforced Concrete Design	1	Advanced Topics in Civil Engineering	1
CIV 495 Senior Project I	0.5	College Core Elective	1
Advanced Topics in Civil Engineering	1		
Advanced Topics in Civil Engineering	1		
Total	4.5	Total	4.5