



Trident Technical College and The Citadel
Engineering Course Equivalencies
19 January 2022



TTC Course	Civil	Construction	Computer	Electrical	Mechanical
Engineering Requirements for each program					
You must achieve a grade of 'C' or higher in all math, science, engineering courses in order to transfer the credit					
CHM 110	CHEM 151/161	CHEM 151/161	CHEM 151/161	CHEM 151/161	CHEM 151/161
CHM 111	CHEM 152/162	CHEM 152/162	CHEM 152/162	CHEM 152/162	CHEM 152/162
BIO 101	BIOL 101/111	BIOL 101/111	Or BIOL 101/111	Or BIOL 101/111	Or BIOL 101/111
PHY 221	PHYS 221/271	PHYS 221/271	PHYS 221/271	PHYS 221/271	PHYS 221/271
PHY 222			PHYS 222/272	PHYS 222/272	PHYS 222/272
MAT 140	MATH 131	MATH 131	MATH 131	MATH 131	MATH 131
MAT 141	MATH 132	MATH 132	MATH 132	MATH 132	MATH 132
MAT 240	MATH 231			MATH 231	MATH 231
MAT 242	MATH 234		MATH 234	MATH 234	MATH 234
ECE 221			ELEC 201	ELEC 201	ELEC 201
ECE 222			ELEC 202	ELEC 202	ELEC 202
ECE 205			ELEC 204	ELEC 204	ELEC 204
EGR 202	CIVL 210	CIVL 210			
EGR 269					MECH 101
EGR 202/274				ELEC 206	MECH 102
EGR 269/275			ELEC 106	ELEC 106	
EGR 275	CIVL 101	CIVL 101			
EGR 281			CSCI 201		
EGR 282	CIVL 103	CIVL 103			
EGR 283			CSCI 202		
EGR 285	CIVL 205	CIVL 205			
EGR 286	CIVL 208	CIVL 208			
EGR 295	CIVL 235	CIVL 235			
EGR 296	CIVL 239	CIVL 239			
EGR 260	CIVL 202	CIVL 202			CIVL 202
EGR 262	CIVL 203				CIVL 203
Additional Trident Technical College Coursework: General Education Requirements					
ENG 101	ENGL 101	ENGL 101	ENGL 101	ENGL 101	ENGL 101
ENG 102+	ENGL 102+	ENGL 102+	ENGL 102+	ENGL 102+	ENGL 102+
ENG 260	COMM 260	COMM 260	COMM 260	COMM 260	COMM 260
HIS 101+	HIST ###	HIST ###	HIST ###	HIST ###	HIST ###
Hum / FA (a)	Hum / FA	Hum / FA	Hum / FA	Hum / FA	Hum / FA
SocSci 2xx (b)	Soc Sci	Soc Sci	Soc Sci	Soc Sci	Soc Sci
ACC 101		BADM 211			
MAT/Science		MATH/Science			

- a. English classes beyond ENG 101 (but not public speaking), Foreign Language classes 200-level or higher, Fine Arts classes, History Classes.
- b. One of the following equivalent courses will satisfy Social/Behavioral Science course requirement: Psychology, Sociology, Political Science (American Government and similar classes), Economics (Macro/Micro), Anthropology.

Courses Taken at The Citadel

Civil Engineering: 61 credit hours	Construction Engineering: 61 credit hours	Computer Engineering: 55 credit hours	Electrical Engineering: 56 credit hours	Mechanical Engineering: 62 credit hours
Third Year (33 hours)	Third Year (32 hours)	Third Year (31 hours)	Third Year (32 hours)	Third Year (35 hours)
EUGS 101 Intro to The Citadel	EUGS 101 Intro to The Citadel	EUGS 101 Intro to The Citadel	EUGS 101 Intro to The Citadel	EUGS 101 Intro to The Citadel
CIVL-203 Dynamics	CIVL-304 Mech of Materials	MATH 206 Intro to Discr. Struct.	MATH 335 Adv. Eng Math	CIVL-203 Dynamics ^
CIVL-302 Highway Engineering	CIVL-314 Engineering Economy	CSCI 223 Data Structures	ELEC 306 Electronics	CIVL-304 Mech of Materials
CIVL-304 Mech of Materials	CONE-302 Eng/ Comm Law, Ethics, Safety & Contracts	ELEC 306 Electronics	ELEC 313 Junior Lab I	CIVL-307 Materials Laboratory
CIVL-305 Transp Engineering	CONE-311 Resource Estimating	ELEC 313 Junior Lab I	ELEC 309 Signals & Systems	MECH-304 Eng Materials w/lab
CIVL-307 Materials Laboratory	CONE-312 Advanced Estimating	ELEC 309 Signals & Systems	ELEC 311 Digital Circuits	MECH-310 Thermo-Fluid I w/lab
CIVL-309 Structural Analysis	CONE-320 Eng Matls and Methods w/ lab	ELEC 311 Digital Circuits	ELEC 318 Electromagnetics	MECH-311 Thermo-Fluid II w/lab
CIVL-314 Engineering Economy	CONE-330 Qual Mgmt and Labor Relations	CSCI 320 Database Design	ELEC 312 Systems I	MECH-330 Meas & Instr. w/lab
CIVL-320 Fluid Mechanics	CONE-340 Struc Anlys & Des	ELEC 312 Systems I	ELEC 316 Electro -Mechanical	MECH-340 Manf Processes w/lab
CIVL-321 Hydrology & Hydraulics	CONE-350 Comm Const and Eng Eqpt	ELEC 4XX EE Elective	ELEC 302 Junior Lab II	MECH-345 Machine Design
CIVL-322 Intro to Env Eng	CONE-360 Soils and Foundations w/lab	ELEC 330 Advanced Digital	ELEC 330 Advanced Digital	MECH-350 Mod/ Anlys & Dyn. Sys I
CIVL-327 Asphalt & Concrete Lab		CIVL 314 Eng. Economics	CIVL 314 Eng. Economics	MECH-360 ME Sys Design
CIVL-331 Prob & Statistics for Civil & Cons Eng			CIVL 310 Statics for Non CE	MECH-365 Compl Meth in Eng
Fourth Year (28 hours)	Fourth Year (29 hours)	Fourth Year (24 hours)	Fourth Year (24 hours)	Fourth Year (27 hours)
CIVL-402 Geotech Eng Laboratory	CIVL-331 Prob & Statistics for Civil & Cons Eng	ELEC 421 Senior Design I	ELEC 421 Senior Design I	MECH-351 Mod/ Anlys & Dyn. Sys II w/lab
CIVL-404 Reinf Concrete Design	CIVL-412 Eng Prac & Prof Lic	ELEC 412 Prob. and Stats.	ELEC 412 Prob. and Stats.	MECH-415 Heat Transfer
CIVL-406 Steel Design	CONE-410 Project Scheduling	CSCI-420 Software Engineering	ELEC 4XX EE Elective	MECH-450 Mechatronics w/lab
CIVL-408 Water & Wastewater Systems	CONE-412 Eng Prac & Prof Lic	ELEC 4XX EE Elective	ELEC 4XX EE Elective	MECH-481 Senior Design I
CIVL-409 Intro to Geotech Eng	CONE-415 Proj Mgmt and Engineering Administration	ELEC 422 Senior Design II	ELEC 422 Senior Design II	MECH-482 Senior Design II
CIVL-410 Geotechnical Engineering II	CONE-440 Construction Methods and Temporary Structural Design	ELEC 428 Computer Architecture	ELEC 4XX EE Elective	MECH ME Option I **
CIVL-411 Eng Mgmt	CONE-450 Fac Opns and Maint (BIM)	Technical Elective	ELEC 4XX EE Elective	MECH ME Option II **
CIVL-412 Eng Prac & Prof Lic	CONE-460 Mechanical/Electrical Systems	ELEC 4XX EE Elective	ELEC 4XX EE Elective	MECH Mechanical Elective **
CIVL-418 Fluid Mech Lab	CONE-470 Prod Proc and Rapid Development w/lab			Technical Elective *
CIVL-419 Env Eng Lab	CONE-481 Con Eng Capstone I			
CIVL-432 CE Capstone I	CONE-482 Con Eng Capstone II			
CIVL-433 CE Capstone II				

^ Students can elect to take this course at TTC or in the summer at The Citadel.

* To be selected from an approved list of courses in engineering or science.

** To be selected from an approved list of courses in Mechanical Engineering.