

North Carolina State University
CONSTRUCTION ENGINEERING
 Degree: B.S. in Construction Engineering (14CONBS)
 Department of Civil, Construction, and Environmental Engineering
 For students entering CCEE Department after July 2018 (F'18)

FRESHMAN YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
CH 101 Chemistry, A Molecular Science	3	EC 205 Economics (GEP Req) ¹	3
CH 102 General Chemistry Laboratory	1	MA 241 Calculus II	4
E 101 Introduction to Engr & Prob. Solving	1	PY 205 Physics for Engineers & Scientists I	3
E 115 Intro to Computing Environments	1	PY 206 Physics for Engineers & Scientists I Lab	1
ENG 101 Academic Writing and Research	4	E 102 Engineering in the 21 st Century (GEP Req) ¹	2
MA 141 Calculus I	4	GEP Requirement ¹ (GEP Humanities)	3
HESF 1XX Fitness & Wellness Course	1		
Total:	15	Total:	16
SOPHOMORE YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
CE 214 Engineering Mechanics – Statics	3 (CP)	CE 225 Mechanics of Solids	3 (CP)
CE 250 Intro. to Sustainable Infrastructure	3 (CP)	CE 263 Intro to Construction Engineering (S)	3 (CP)
CSC 111 Intro. to Computing: Python	3	CE 365 Construction Equipment & Methods (S)	3
TDE 220 Civil Engineering Graphics	3	PY 208 Physics for Engineers & Scientists II	3
MA 242 Calculus III	4	ST 370 Probability and Statistics for Engrs.	3
		HES *** Phys. Ed/Healthy Living Course	1
Total:	16	Total:	16
JUNIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
CE 301 Civil Engr. Surveying & Geomatics	3	CE 332 Materials of Construction	3
CE 327 Reinforced Concrete Design	3	CE 342 Engineering Behavior of Soils & Fdns.	4
CE 282 Hydraulics	3	CE 367 Mech. and Elect. Systems in Buildings (S)	3
CE 463 Const. Est., Planning & Control (F)	3	MEA 101 Geology I - Physical	3
MSE 200 Mech. Prop. of Structural Materials	3	MEA 110 Geology I - Laboratory	1
COM 110 Public Speaking OR		GEP Requirement ¹ (GEP Humanities)	3
ENG 331 Comm. for Engr. & Tech.	3		
Total:	18	Total:	17
SENIOR YEAR			
FALL SEMESTER	CREDITS	SPRING SEMESTER	CREDITS
CE 426 Structural Steel Design	3	CE 464 Legal Aspects of Contracting (S)	3
CE 466 Building Construction Engr. (F)	3	CE 469 Construction Eng. Project (S)	3
Engineering Elective ⁴	3	Management Science Elective (GEP Req) ^{1,2}	3
ACC 210 Intro. to Managerial Acc.	3	GEP Requirement ¹ (GEP Interdisciplinary Persp.)	3
Basic Science Elective ³	3	GEP Requirement ¹ (GEP Additional Breadth)	3
Total:	15	Total:	15
Minimum Credit Hours Required for Graduation*: 128			

Major/Program Footnotes:

¹GEP Requirements to be selected from the appropriate lists.

² Management Science Elective (2nd Soc Sci GEP) - Select one: SOC205, SOC301, SOC305/AFS305 (USD), PS202, PS310, PS312, PS314, or PS320

³ Basic Science Elective - Select one: SSC 200, FOR 260, or FW 221

⁴ Engineering Elective - Select one: ECE 331, MAE 201, CE 499, or an advised elective from CE course list

* Foreign Language Proficiency at the FL_102 level is required for graduation.

(CP) – Critical Path major specific course predictive of student success.

CONSTRUCTION ENGINEERING

COURSE LISTING WITH PRE- AND CO-REQUISITES IN PARENTHESES

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Fall SemesterSpring Semester**FRESHMAN YEAR**

CH 101	(CoReq CH 102)	EC 205	(GEP Soc. Sci. Req) ¹
CH 102	(CoReq CH 101)	MA 241	(C or better in MA 141)
E 101		PY 205	(C or better in MA 141)
E 115		PY 206	(C or better in MA 141; CoReq PY 205)
ENG 101		E102	(CoReq E 115 & MA 141) (GEP IP Req) ¹
MA 141		GEP Requirement ¹	
HESF 1XX Fitness & Wellness Course			

Matriculation Requirements (CODA): 1. C or better in CH 101, CH 102, ENG 101, MA 141, MA 241, PY 205 & PY 206
2. Completion of E 115 (S)

SOPHOMORE YEAR

CE 214	(C or better PY205 & MA241; CoReq MA 242)	CE 225	(MA 242, C- or better in CE 214)
CE 250	(CoReq CSC 111 & CE 214)	CE 263	(CoReq CE 214) (S only)
CSC 111	(CoReq E 115 & MA 141)	CE 365	(CoReq CE 263, ST 370) (S only)
TDE 220		PY 208	(C- or better in PY 205 & MA 241)
MA 242	(C or better in MA 241)	ST 370	(MA 241)
HES *** Phys. Ed/Healthy Living Course			

JUNIOR YEAR

CE 301	(Junior Standing)	CE 332	(C- or better in CE 225, MSE 200)
CE 327	(C- or better in CE 225)	CE 342	(C- or better in CE 225 and CE 282)
CE 282	(C- or better in CE 214; CoReq ST 370)	CE 367	(C- or better in CE 282) (S only)
CE 463	(CE 263, CE 365 & TDE 220) (F only)	MEA 101	
MSE 200	(C or better in CH 101)	MEA 110	
COM 110 <u>or</u> ENG 331		GEP Requirement ¹	

SENIOR YEAR

CE 426	(C- or better in CE 225)	CE 464	(CE 463; CoReq CE 365) (S only)
CE 466	(CE 327) (F only)	CE 469	(CE 463; CoReq CE 464) (S only)
Engineering Elective ⁴		Management Science Elective (GEP Soc. Sci. Req) ^{1,2}	
ACC 210		GEP Requirement ¹	
Basic Science Elective ³		GEP Requirement ¹	

Major/Program Footnotes:¹ GEP Requirements to be selected from the appropriate lists² Management Science Elective (2nd Soc Sci GEP) - Select one: SOC 205, SOC 301, SOC 305/AFS 305 (USD), PS 202, PS 310, PS 312, PS 314, or PS 320³ Basic Science Elective - Select one: SSC 200, FOR 260, or FW 221⁴ Engineering Elective - Select one: ECE 331, MAE 201, CE 499, or an advised elective from CE course list