

# North Carolina State University

## Construction Engineering Curriculum (Effective 07-01-2021)

### 2 + 2 Program with UNCA

#### FALL SEMESTER

#### SPRING SEMESTER

#### Freshman Year (UNC Asheville)

MATH	191	Calculus I	4		MATH	192	Calculus II	4
LANG	120	Academic Writing & Crit Inquiry	4		PHYS	221	Physics I	4
CHEM	132	General Chemistry	3		ECON	104	Microecon. Princip. for Engineer.	3
CHEM	111	General Chemistry Lab	1		***	***	GEP Course	3
E	101	Intro to Engr & Prob Solv	1		***	***	GEP Course	<u>3</u>
JEM	123	Intro to CAD for Mechat. Eng.	1					17
FYS	178	First Year Seminar	<u>3</u>					
			<u>17</u>					

#### Sophomore Year (UNC Asheville)

MATH	291	Calculus III	4		ENVR	105	Physical Geology	4
PHYS	222	Physics II	4		MAE	214	Solid Mechanics	3
MSE	201	Struc & Prop of Engr Matls	3		STAT	225	Calculus-Based Statistics	4
MAE	206	Engineering Statics	<u>3</u>		***	***	GEP Course	3
			<u>14</u>		***	***	GEP Course	<u>3</u>
								17

#### Junior Year (NCSU)

CE	327	Reinforced Concrete Design	3		CE	263	Intro to Construction Engr	3
CE	282	Hydraulics	3		CE	342	Engr Behav Soils & Foundns	4
CE	332	Materials of Construction	3		CE	365	Construction Equip't & Meth	3
CE	250	Intro to Sustainable Infrast.	3		CE	367	Mech & Elec Sys in Buildings	3
CSC	111	Intro to Computing: Python	3		TDE	220	Civil Engineering Graphics	3
E	115	Intro to Computing Environ	<u>1</u>		***	***	GEP substitute for E 102	<u>2</u>
			<u>16</u>					18

#### Senior Year (NCSU)

CE	426	Structural Steel Design	3		CE	301	Civil Engr Surv & Geomatics	3
CE	463	Const Est, Plan'g & Control	3		CE	464	Legal Aspects of Contracting	3
CE	466	Building Construction Engr	3		CE	469	Construct Engr Project	3
ENG	331	Comm for Engrs & Tech (a)	3		ACC	280	Survey of Fin. and Man. Acct.	3
***	***	Basic Science Elective	3		***	***	Management Science Elective	3
***	***	Engineering Elective	<u>3</u>		HES	***	Phys. Ed/Healthy Living	1
			<u>18</u>		HES	***	Health Exercise Studies	<u>1</u>
								17

(a) or COM 110 (3)