

North Carolina State University

Computer Engineering Curriculum (Effective 07-01-2021)

2 + 2 Program with UNC Asheville

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		ECE	109	Intro to Computer Systems	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		ECE	211	Electric Circuits	4
PHYS	222	Physics II	4		ECE	212	Fund of Logic Design	3
ECE	200	Intro Signals, Circuits & Systems	4		ECE	220	Analytical Found'ns of ECE	3
ECE	209	Computer Systems Programming	<u>3</u>		***	***	GEP Course	3
			<u>15</u>		***	***	GEP Course	<u>3</u>
								16

Junior Year (NC State)

ECE	301	Linear Systems	3		ECE	381	Engineer Prof for CPE (a)	1
ECE	302	Intro to Microelectronics	4		ECE	309	Object-Oriented Programming	3
ECE	306	Intro to Embedded Systems	3		ECE	310	Design Complex Dig Systems	3
CSC	226	Discrete Math for Computer Sci	3		ENG	331	Comm for Engr & Tech	3
HES	***	Health & Exercise Studies	1		COM	110	Public Speaking	3
E	115	Intro to Computing Environ	<u>1</u>		E	102	(or GEP substitute)	<u>2</u>
			<u>15</u>					15

Senior Year (NC State)

ECE	484	ECE Senior Design Project I	3		ECE	485	ECE Senior Design Project II	3
ECE	4**	CPE Elective	3		ECE	4**	ECE Elective	3
ECE	4**	CPE Elective	3		ECE	4**	ECE Elective	3
ST	371	Intro to Prob and Dist Theory	3		***	***	GEP Course	3
***	***	Open/Technical Elective	<u>3</u>		***	***	GEP Course	3
			<u>15</u>		HES	***	Health & Exercise Studies	<u>1</u>
								16

(a) or ECE 380 (1) or ECE 383 (1)