NCSU Computer Engineering

(Unofficial Community Colleges to NCSU Curriculum)

Degree Earned:	NCSU Bachelor of Science in Computer Engineering — **Transfer GPA = 3.5**
Effective:	2017-2018 — ▨ Grey Highlighted Courses – Take at NCSU

FRESHMAN YEAR

	Fall Semester	Credit		Spring Semester	Credit
CHM 151	CH 101 Chemistry -- A Molecular Science[1]	3	EGR 212	ECE 109 Intro to Computer Systems[2]	3
CHM 151	CH 102 General Chemistry Lab[1]	1	MAT 272	MA 241 Calculus II[1]	4
EGR 150	E 101 Intro to Engr & Problem Solving[2]	1	PHY 251	PY 205 Physics for Engr & Science I[1]	3
				PY 206 Physics for Engr & Science I Lab	1
NCSU	E 115 Intro to Computing Environment[2]	1	ECO 251	EC 205 Economics (EC 201/205, ARE 201) (GEP Social Sciences)	3
ENG 111 & ENG 112	ENG 101 Academic Writing & Research[2]	4	PED 110	HESF 10* Health and Exercise Studies Fitness Course*	1
MAT 271	MA 141 Calculus I[1]	4			
	GEP Requirement* (Humanities)	3			
		17			**15**

SOPHOMORE YEAR

	Fall Semester	Credit		Spring Semester	Credit
NCSU	ECE 200 Intro to ECE Lab[2]	4	COM 231	COM 110 Public Speaking	3
NCSU	ECE 209 Computer Systems Programming[2]	3	NCSU	CSC 226 Discrete Mathematics[2]	3
MAT 273	MA 242 Calculus III	4	NCSU	ECE 211 Electric Circuits[2]	4
PHY 252	PY 208 Physics for Engr & Science II	3	NCSU	ECE 212 Fundamentals of Logic Design[2]	3
	PY 209 Physics for Engr & Science II Lab	1			
			NCSU	ECE 220 Analytical Foundations of ECE[2]	3
		15			**16**

JUNIOR YEAR

	Fall Semester	Credit		Spring Semester	Credit
NCSU	ECE 301 Linear Systems	3	NCSU	ECE 309 Object-Oriented Programming	3
NCSU	ECE 302 Intro to Microelectronics	4	NCSU	ECE 380 or 381 or 383[3] Engineering Profession for EE or CPE or Entrepreneurship	1
NCSU	ECE 306 Intro to Embedded Systems	3	NCSU	ECE 310 Design of Complex Digital Systems	3
	GEP Requirement* (Social Sciences)	3	NCSU	Open/Tech Elective[6]	3
NCSU	ST 371 Intro to Prob and Dist Theory	3	NCSU	ENG 331 Comm for Engr & Tech	3
			PED 110	HES Health and Exercise Studies Course*	1
		16			**14**

SENIOR YEAR

	Fall Semester	Credit		Spring Semester	Credit
NCSU	ECE 484 Senior Design Project I	3	NCSU	ECE 485 Senior CPE Design Project II	3
NCSU	ECE 4XX CPE Elective[4]	3	NCSU	ECE 4XX ECE Elective[5]	3
NCSU	ECE 4XX CPE Elective[4]	3	NCSU	ECE 4XX ECE Elective[5]	3
	GEP Requirement* (see advisor for assistance)	3	HUM 110	GEP Requirement* (Interdisciplinary Perspectives)	3
	GEP Requirement* (see advisor for assistance)	3		GEP Requirement* (see advisor for assistance)	2-3
		15			**14-15**

NCSU - Minimum Credit Hours Required for Graduation in Computer Engineering for Graduation[*I,J,K]:	**122**

Major/Program requirements and footnotes:

[1] Must be completed with a grade of C or higher.

[2] Must be completed with a grade of C- or higher.

[3] Students in the entrepreneurs program should take ECE 383/ECE 482/ECE 483 instead of ECE 380/ECE 484/ECE485

[4] CPE 4xx electives (Choose two): See the degree audit for list of course options for fulfilling the CPE Electives requirement.

[5] ECE 4xx electives: See the degree audit for list of course options for fulfilling the ECE Electives requirement. Students with major GPAs greater than 3.2 can also take ECE 5xx courses.

[6] Open/Technical electives: See the degree audit for list of course options for fulfilling the CPE Electives requirement.

General Education Program (GEP) requirements:

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To complete the requirements for graduation and the General Education Program, the following credit hours and co-requisites must be satisfied. University approved GEP course lists for each category can be found at http://oucc.ncsu.edu/gep-courses.

HEALTH EXERCISE STUDIES - 2 hours to be selected from the approved GEP Health Exercise Studies list.

a. One fitness and wellness course (any HESF 100-level course).

b. One additional credit hour of HES courses.

HUMANITIES- 6 credits to be selected in two different disciplines from the approved GEP Humanities course list.

SOCIAL SCIENCES - 3 credits to be selected in a discipline other than economics from the approved GEP Social Sciences list. EC 205 (EC 201 or ARE 201) taken as part of the Major requirements satisfies 3 credit hours of the 6 credit hours needed to fulfill the GEP Social Sciences requirement.

ADDITIONAL BREADTH - 3 credits to be selected from the approved GEP Humanities, Social Sciences or Visual and Performing Arts lists.

INTERDISCIPLINARY PERSPECTIVES - 5-6 credits to be selected from the approved GEP Interdisciplinary Perspectives list.

Co-requisites:

U.S. Diversity and Global Knowledge co-requisites must be satisfied to complete the General Education requirements. Choose course(s) that are identified on the approved GEP course lists as meeting the U.S. Diversity and Global Knowledge co-requisites.

Foreign Language proficiency at the FL_102 level will be required for graduation.