

UNC-Charlotte Computer Engineering					
(Unofficial Community Colleges to UNC-Charlotte)					
Degree Earned:	UNC-Charlotte Bachelor of Science Computer Engineering			Transfer GPA = 2.5	
Effective:	2015		Grey Highlighted Courses – Take Courses at UNC-Charlotte		
FRESHMAN YEAR					
Com College	Fall Semester	Credit	Com College	Spring Semester	Credit
ENG 111	UWRT 1101 Writing & Inquiry in Academic Contexts I	3	ENG 112	UWRT 1102 Writing & Inquiry in Academic Contexts II	3
EGR 150	ENGR 1201 Engr Practices & Principles I	2	UNC-C	ENGR 1202 Introduction to Engineering II	2
CHM 151	CHEM 1251 Chemistry I	3	PHY 251	PHYS 2101 Physics for Science & Engr I	3
CHM 151	CHEM 1251L Chemistry Laboratory	1	PHY 251	PHYS 2101L Physics for Science & Engr Lab	1
CSC 134	ECGR 2103 Computer Utilization in C++	3	UNC-C	ECGR 2104 Computer Engineering Programming II	3
MAT 271	MATH 1241 Calculus I	3	MAT 272	MATH 1242 Calculus II	3
15			15		
SOPHOMORE YEAR					
Com College	Fall Semester	Credit	Com College	Spring Semester	Credit
UNC-C	ECGR 2111 Network Theory I	3	UNC-C	ECGR 2112 Network Theory II	3
UNC-C	ECGR 2155 Instrumentation & Networks Lab	1	UNC-C	ECGR 2156 Logic & Networks Lab	1
UNC-C	ECGR 2181 Logic System Design I	3	UNC-C	ECGR 2252 ECE Sophomore Design	2
MAT 285	MATH 2171 Differential Equations	3	UNC-C	MATH 1165 Intro to Discrete Structures	3
PHY 252	PHYS 2102 Physics II	3	MAT 273	MATH 2241 Calculus III	3
PHY 252	PHYS 2102L Physics II Lab	1	MAT 280	MATH 2164 Matrices and Linear Algebra	3
ART 111, 114, 115, MUS 110	LBST 1100 series: Arts and Society	3			
17			15		
JUNIOR YEAR					
Com College	Fall Semester	Credit	Com College	Spring Semester	Credit
UNC-C	ECGR 3111 Signals & Systems	3	UNC-C	ECGR 3101 Embedded Systems	3
UNC-C	ECGR 3131 Fund. of Electronics/Semiconductors	3	UNC-C	ECGR 3123 Data Communications & Networking	3
UNC-C	ECGR 3155 Systems & Electronics Lab	1	UNC-C	ECGR 3132 Electronics	3
UNC-C	ECGR 3183 Computer Org. and Prog. Languages	3	UNC-C	ECGR 3157 ECE Junior Design	2
HIS 111/ 112, HUM 110	LBST 2101 West. Culture & Historical Awareness	3	HIS 111/112 HUM 110, REL	LBST 2102 Global and Intercultural Connections	3
PHI 240	LBST 2200 series: Ethical Issues & Cultural Critique	3	ECO 251	ECON 2101 Principles of Macro Economics or ECON 2102 Principles of Micro Economics	3
16			17		
SENIOR YEAR					
Com College	Fall Semester	Credit	Com College	Spring Semester	Credit
UNC-C	ECGR 4232 Computer Engr Senior Design I	2	UNC-C	ECGR 4242 Computer Engr Senior Design II	3
UNC-C	ECGR 4XXX Technical Elective #1	3	UNC-C	Depth Elective #2	3
UNC-C	ECGR 4124 Digital Signal Processing	3	UNC-C	Depth Elective #3	3
UNC-C	ECGR 3295 Professional Development	1	UNC-C	ECGR 4XXX Technical Elective #2	3
UNC-C	Depth Elective #1	3	UNC-C	ECGR 4XXX Technical Elective #3	3
UNC-C	STAT 3128 Probability & Stats for Engineers	3	UNC-C	EGCR 3159 Professional Practice	2
15			17		
UNC-Charlotte - Minimum Credit Hours Required for Graduation in Computer Engineering					127

UNC-Charlotte Computer Engineering (continued)
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Depth Electives

Nine (9) hours of depth electives are required and must be chosen exclusively from the courses listed below. Individual study and undergraduate research courses may not be taken as depth electives.

ECGR 4090 Special Topic (approved case-by-case)

ECGR 4103 Applied Computer Graphics

ECGR 4111 Control Systems Theory I

ECGR 4123 Analog/Digital Communication

ECGR 4131 Linear Integrated Electronics

ECGR 4146 Introduction to VHDL

ECGR 4161 Introduction to Robotics

ECGR 4181 Computer Arithmetic

ECGR 4187 Data Communications

ECGR 4422 Random Processes and Optimum Filtering

ITCS 2214 Data Structures

Technical Electives

Six (6) credits of the technical electives must be chosen from among any of the 4000 level or higher ECGR course that is not required as part of the curriculum. The remaining three (3) credits may be chosen from among any 3000 level and higher ECGR, MATH, PHYS, or ITCS course that is not part of the degree requirements, with prior approval of the student's academic advisor. Co-op students may count up to three (3) hours of ECGR 3695 co-op course toward their technical elective requirements. Individual study and undergraduate research courses may not be taken as technical electives.