

UNC-Charlotte Electrical Engineering

(Unofficial Community Colleges to UNC-Charlotte)

Degree Earned: UNC-Charlotte Bachelor of Science – Electrical Engineering

Transfer GPA = 2.5

Effective: 2017

Grey Highlighted Courses – Take Courses at UNC-Charlotte

FRESHMAN YEAR

Com College	Fall Semester	Credit	Com College	Spring Semester	Credit
ART, MUS	LBST 1100 series: Arts & Society	3	ENG 112	UWRT 1104 Writing & Inquiry in Academic Contexts II	3
EGR 150	ENGR 1201 Engr Practices & Principles I	2	UNC-C	ENGR 1202 Engr Practice and Principles II	2
CHM 151	CHEM 1251 Principles of Chemistry	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	Soc Sec	LBST 2101	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 and Networks Lab	1	UNC-C	ECGR 2156 Logic and Networks Laboratory	1
EGR 212	ECGR 2181 Logic System Design I	3	UNC-C	ECGR 2252 ECE Sophomore Design	2
MAT 285	MATH 2171 Differential Equations	3	MAT 273	MATH 2241 Calculus III	3
PHY 252	PHYS 2102 Physics for Science & Engr II	3	UNC-C	PHYS 3141 Introduction to Modern Physics	3
	LBST 2301 Critical Thinking and Communication	3	MAT 280	MATH 2164 Matrices and Linear Algebra	3
		16			15

JUNIOR YEAR

Com College	Fall Semester	Credit	Com College	Spring Semester	Credit
UNC-C	ECGR 3111 Signals & Systems	3	UNC-C	ECGR 3122 Electromagnetic Waves	3
UNC-C	ECGR 3121 Intro to Electromagnetic Fields	3	UNC-C	ECGR 3132 Electronics	3
UNC-C	ECGR 3131 Fundamentals of Elec. & Semiconductors	3	UNC-C	ECGR 3142 Electromagnetic Devices or ECGR 3133 Solid State Microelectronics I	3
UNC-C	ECGR 3155 Systems & Electronics Lab	1	UNC-C	ECGR 3156 Electro & Electronic Devices Lab	1
UNC-C	STAT 3128 Probability & Statistics for Engr	3	UNC-C	ECGR 3112 System Analysis II	3
PHI 240	LBST 2200 series: Ethical Issues & Cultural Critique	3	UNC-C	ECGR 3157 ECE Junior Design	2
			UNC-C	ENGR 3295 Professional Development	1
		16			16

SENIOR YEAR

Com College	Fall Semester	Credit	Com College	Spring Semester	Credit
UNC-C	ECGR 4241 Senior Design I	2	UNC-C	ECGR 4242 Senior Design II	3
UNC-C	ECGR 4123 Analog and Digital Communication or ECGR 4124 Digital Signal Processing	3	UNC-C	MEGR 3111 Thermodynamics I	3
UNC-C	ECGR 4xxx Course	3	UNC-C	ECGR 4xxx Course	3
UNC-C	ECGR 4xxx Course	3	UNC-C	ECGR 4xxx Course	3
UNC-C	ECGR 3159 Professional Practice	2	ECO 251	ECON 2101 Principles of Macro Economics or ECON 2102 Principles of Micro Economics	3
UNC-C	Technical Elective	3			
		16			15

UNC-Charlotte - Minimum Credit Hours Required for Graduation in Electrical Engineering

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UNC-Charlotte Electrical Engineering (continued)

Developed by Susan Meardon, Engineering Department Head, Wake Technical Community College, July 2017 revision

The B.S.E.E. academic plan of study requires fifteen (15) hours. **Twelve (12) hours of these technical electives must be chosen from 4000 level ECGR courses** while the remaining three (3) may be chosen from any 3000 level and higher ECGR courses that are not part of the degree requirements, or non-ECGR course dealing with engineering science, analysis, synthesis, or design. Individual study courses **may not** be taken as technical electives. Co-op students may count up to three (3) hours of ECGR 3695 co-op course toward their technical elective requirements.

Limit of One *outside* of the department.

Consistent with the student's educational objectives and in consultation with academic advisor, up to three (3) hours of the technical electives may be taken outside the ECE Department. The following process should be followed in selecting this **non-ECGR technical elective course**:

1. A 3-hour 3000-level or above course that is consistent with the student's educational objectives, and is more advanced than similar courses that are required by the student's academic plan of study, should be selected by the student and approved by his/her academic advisor and the Department Associate Chair.
2. The student **must seek the approval** of his/her advisor **and** the Associate Chair **before taking the course**.
3. In cases when a student request transfer credits for the non-ECGR technical elective, the Department Associate Chair will evaluate the request to determine whether or not the requested transfer credit is consistent with the requirements in #1.