

Electrical Engineering, B.S.E.E

North Carolina Community College classes are listed below in left column. The UNC Charlotte equivalent course is listed in the column next to the NCCCS courses.

The University of North Carolina at Charlotte strongly recommends students complete their Associate degree prior to transferring to UNC Charlotte. Pathways are structured for students who have completed all requirements for their Associate degree and qualify for the CAA.

Please Note: BDP's are developed based on the approved curriculum for each catalog year. Based on admitted term of entry and the curriculum posted for the catalog year, programs of study are subject to change.

UNC Charlotte Baccalaureate Degree Plans

ece.charlotte.edu

Additional Requirements / Special Note for Admission to the upper division in major:	Transfer Admission Requirements: for direct admission into the William States Lee College of Engineering <ul style="list-style-type: none"> • 24 transferable credits complete • Cumulative GPA of 2.5 or higher required • College-level Calculus I (MAT 271 at NC Community) must be complete with a grade of C or higher prior to transferring
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		NC Community College Course	UNC Charlotte Equivalent Course	Notes
Semester 1 13 Credit Hrs	4	MAT 271: Calculus I ** UGETC: Math	MATH 1241: Calculus I **	
	2	EGR 150: Intro to Engineering **	ENGR 1201 Intro to Engineering **	
	3	ENG 111: Writing and Inquiry UGETC: Composition	WRDS 1103 Wrtnng & Inqry Acdmc Ctx I & II	
	3	ART 111, 114, 115 MUS 110, 112 UGETC: Arts/Humanities	LBST 11xx: Arts and Society	
	1	ACA 122: College Transfer Success UGETC: ACA 122	TRNF 1ELE: Transfer Elective	

		NC Community College Course	UNC Charlotte Equivalent Course	Notes
Semester 2 17 Credit Hrs	4	MAT 272: Calculus II ** UGETC: Math	MATH 1242: Calculus II **	
	4	PHY 251 General Physics I & Lab ** UGETC: Natural Science	PHYS 2101: Physics for Science & Engineering I & Lab **	
	3	ENG 112: Writing & Research in Disciplines UGETC: Composition	WRDS 1ELE - Exemption for LBST 2301	
	3	HIS 111, 112, 131, 132, POL 120, PSY 150, SOC 210	LBST 2101 or Social Science	HIS Preferred
	3	CSC 134: C++ Programming **	ECGR 2103 Computer Utilization in C++ **	Recommended Elective

		NC Community College Course	UNC Charlotte Equivalent Course	Notes
Semester 3 15 Credit Hrs	4	MAT 273: Calculus III *	MATH 2241: Calculus III *	
	3	EGR 215 Network Theory I	ECGR 2111 Network Theory I	Recommended Elective
	1	EGR 216 Logic & Networks Lab I	ECGR 2155 Instrumentation and Networks Lab	Recommended Elective
	3	MAT 280 Linear Algebra	MATH 2164: Matrices & Linear Algebra	Recommended Elective
	4	CHM 151: General Chemistry I & Lab	CHEM 1251: Principles of Chemistry I & Lab	

		NC Community College Course	UNC Charlotte Equivalent Course	Notes
Semester 4 15-16 Credit Hrs	3	ECO 251 Principles or Microeconomics	ECON 2102: Principles of Economics-Micro	
	3	ENG 231, 232, 241 , 242, PHI 215, 240 UGETC Arts/Humanities	LBST 22XX: Ethical Issues and Cultural Critique	
	3	MAT 285 Differential Eq	MATH 2171: Differential Equations	Recommended Elective
	4	PHY 252: General Physics II & Lab *	PHYS 2102: Physics for Science & Engineering II & Lab *	
	3-4	BIO 111, CHM 152, COM 110, 231, GEL 111, HUM 110, PHI 240	Coresponding Natural Science, Oral, or LBST transfer course	

Critical Course Indicator	
2 Star (**) Critical Course	Critical Success Course that is a required introductory or prerequisite course within the Major and/or prerequisite course for UNC Charlotte Upper Division coursework for intended major
1 Star (*) Critical Course	Critical Success Course necessary for seamless transition and required for UNC Charlotte Upper Division coursework for intended major
0 Star (Lt Green color only) Critical Course	Key Success Marker Course that is important for seamless transition but can be secured after transfer

Color Key	Category
Light Green	Success Marker Course (Critical Course)
Light Blue	UGETC: General Education Course

		UNC Charlotte Equivalent Course	Notes
Semester 5 18 Credit Hrs	3	ECGR 2254 Analytical Foundations of ECE	
	3	ECGR 2112 Network Theory II	
	1	ECGR 2156 Logic and Networks Laboratory	
	3	PHYS 3141 Introduction to Modern Physics	
	2	ENGR 1202 Engineering Principles & Practice II	
	3	STAT 3128 Probability & Statistics for Eng	
	3	Technical Elective #1 (ECGR 3XXX, MATH 3XXX, ...)	

		UNC Charlotte Equivalent Course	Notes
Semester 6 17 Credit Hrs	3	ECGR 3111 Signals and Systems	
	3	ECGR 3121 Intro to Electromagnetic Fields	
	3	ECGR 3131 Fundamentals of Electronics/Semiconductors	
	1	ECGR 3155 Systems and Electronics Lab	
	1	ENGR 3295 Professional Development	
	3	Technical Elective #2 (ECGR 3XXX, MATH 3XXX,)	
	3	ECGR 3157 ECE Junior Design	

		UNC Charlotte Equivalent Course	Notes
Semester 7 16 Credit Hrs	3	ECGR 3122 Electromagnetic Waves	
	3	ECGR 3132 Electronics	
	3	ECGR 3142 Electric Energy Conversion	
	1	ECGR 3156 Electromagnetic & Electronic Devices Lab	
	1	ECGR 3159 Professional Practice	
	3	ECGR 3112 Systems Analysis II	
	2	ECGR 4241 Electrical Eng Senior Design I	

		UNC Charlotte Equivalent Course	Notes
Semester 8 17 Credit Hrs	2	ECGR 4242 Electrical Eng Senior Design II	
	3	ECGR 4123 or ECGR 4124 A&D Communications or DSP	
	3	ECGR 4XXX 4000 Level ECGR Course	
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60	Total transferred NCCCS Credit Hours
68	Total UNC Charlotte Hours
128	Total Credit Hours