



# UNC Charlotte Baccalaureate Degree Plan

## Computer Engineering, B.S.Cp.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](http://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"> <li>• 24 transferable credits complete</li> <li>• Cumulative GPA of 2.5 or higher required</li> <li>• College-level Calculus I (MAT 271 at NC Community) must be complete with a grade of C or higher prior to transferring</li> </ul>
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		NC Community College Course	UNC Charlotte Equivalent Course	Notes
<b>Semester 1</b> 14 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 Wrting & Inqry Acdmc Ctx I & II	
	4	CHM 151: General Chemistry I	CHEM 1251: Principles of Chemistry I w/ lab	
	1	ACA 122: College Transfer Success UGETC: ACA 122	TRNF 1ELE: Transfer Elective	

		NC Community College Course	UNC Charlotte Equivalent Course	Notes
<b>Semester 2</b> 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 and Research in the Disciplines UGETC: Composition	WRDS 1ELE - Exemption for LBST 2301	
	3	HIS 111, 112, 131, 132, POL 120, PSY 150, SOC 210 UGETC: Social/Behavioral	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
<b>Semester 3</b> 15 Credit Hrs	4	MAT 273: Calculus III *	MATH 2241: Calculus III *	
	4	PHY 252: General Physics II & Lab *	PHYS 2102: Physics for Science & Engineering II & Lab *	
	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	ART 111, 114, 115 MUS 110, 112 UGETC: Arts/Humanities	LBST 11xx: Arts and Society	

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<b>Semester 4 15-16 Credit Hrs</b>	3	ECO 251 Principles or Microeconomics	ECON 2102: Principles of Economics-Micro	
	3	MAT 285 Differential Eq	MATH 2171: Differential Equations	Recommended Elective
	3	MAT 280 Linear Algebra	MATH 2164: Matrices & Linear Algebra	Recommended Elective
	3	ENG 231, 232, 241 , 242, PHI 215, 240 UGETC Arts/Humanities	LBST 22XX: Ethical Issues and Cultural Critique	
	3-4	BIO 111, CHM 152, COM 110, 231, GEL 111, HUM 110, PHI 240	Coresponding Natural Science, Oral, or LBST transfer course	

Additional transferable computer engineering classes offered at NC Community Colleges include: EGR 212, CSC 234, and MAT 167. These may not fit into your associates degree, but speak with your community college academic advisor.

<b>Critical Course Indicator</b>	
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

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

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		UNC Charlotte Equivalent Course	Notes
<b>Semester 5</b> 15 Credit Hrs	3	ECGR 2112 Network Theory II	
	1	ECGR 2156 Logic and Networks Laboratory	
	3	ECGR 2254 Analytical Foundations of ECE	
	2	ENGR 1202 Engineering Principles & Practice II	
	3	ECGR 3123 Data Communications & Networking	
	3	ECGR 3180 Data Structures and Algorithms in C++	

		UNC Charlotte Equivalent Course	Notes
<b>Semester 6</b> 16 Credit Hrs	3	ECGR 3111 Signals and Systems	
	3	ECGR 3131 Fundamentals of Electronics/Semiconductors	
	1	ECGR 3155 Systems and Electronics Lab	
	3	ECGR 3183 Comp. Organization and Prog. Language	
	3	ECGR 3157 ECE Junior Design	
	3	ECGR 3101 Embedded Systems	

		UNC Charlotte Equivalent Course	Notes
<b>Semester 7</b> 15 Credit Hrs	2	ECGR 4251 Senior Design I	
	3	ECGR 4124 Digital Signal Processing	
	3	ECGR 4433 VLSI System Design	
	3	ECGR 4XXX 4000 Level ECGR Course	
	1	ENGR 3295 Professional Development	
	3	STAT 3128 Probability & Statistics for Eng.	

		UNC Charlotte Equivalent Course	Notes
<b>Semester 8</b> 15 Credit Hrs	2	ECGR 4252 Senior Design II	
	3	ECGR 4XXX 4000 Level ECGR Course	
	3	ECGR 4XXX 4000 Level ECGR Course	
	3	Technical Elective #1	
	3	Technical Elective #2	
	1	ECGR 3159 Professional Practice	

60	Total transferred NCCCS Credit Hours
61	Total UNC Charlotte Hours
<b>121</b>	<b>Total Credit Hours</b>