

## Civil Engineering, B.S.C.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  
coe.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> 13 Credit Hrs	4	MAT 271: Calculus I ** UGETC: Math	MATH 1241: Calculus I **	
	2	EGR 150: Intro to Engineering **	ENGR 1201: I Intro to Engr Pract & Princ I **	
	3	ENG 111: Writing and Inquiry UGETC: Composition	WRDS 1103 Wrtng & Inqry Acdmc Ctx I & II	
	1	ACA 122: College Transfer Success	TRNF 1ELE: Transfer Elective	
	3	Student Choice UGETC: Humanities/ Fine Arts	General Education Course	

		NC Community College Course	UNC Charlotte Equivalent Course	Notes
<b>Semester 2</b> 14 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	CTCM 2530: Critical Thinking and Communications	
	3	Student Choice UGETC: Humanities/ Fine Arts	General Education Course	

		NC Community College Course	UNC Charlotte Equivalent Course	Notes
<b>Semester 3</b> 17 Credit Hrs	4	MAT 273: Calculus III *	MATH 2241: Calculus III *	
	4	CHM 151: General Chemistry I & Lab	CHEM 1251: Principles of Chemistry I & Lab	
	3	CSC 134: C++ Programming **	ENGR 1202: I Intro to Engr Pract & Princ II**	
	3	MAT 280: Linear Algebra	MATH 2164: Matrices & Linear Algebra	Recommended Elective
	3	Student Choice UGETC: Social/Behavioral	General Education Course	

		NC Community College Course	UNC Charlotte Equivalent Course	Notes
<b>Semester 4</b> 16-17 Credit Hrs	3	ECO 251 Principles or Microeconomics	ECON 2102: Principles of Economics-Micro	
	3	MAT 285: Differential Equations	MATH 2171: Differential Equations	Recommended Elective
	3-4	BIO 111, CHM 152, COM 110, 231, GEL 111, HUM 110, PHI 240	General Education Course	BIO 111 or GEL 111 Preferred
	4	PHY 252: General Physics II & Lab **	PHYS 2102: Physics for Science & Engineering II & Lab **	
	3	EGR 220: Engineering Statics	MEGR 2141: Engineering Statics	Recommended Elective

<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

		UNC Charlotte Equivalent Course	Notes
<b>Semester 5</b> 14 Credit Hrs	3	CEGR 2102: Engineering Economics	
	3	CEGR 2103: Surveying and Tech. Drawing	
	3	STAT 3128: Prob and Stat for Engineers	
	3	MEGR 2144: Introduction to Solid Mechanics	
	2	CEGR 3255: Structural Materials Lab	

		UNC Charlotte Equivalent Course	Notes
<b>Semester 6</b> 18 Credit Hrs	2	CEGR 2154: Design Project Lab	
	3	CEGR 3141: Environmental Engineering	
	2	CEGR 3155: Environmental Eng. Lab	
	3	CEGR 3143: Hydraulics & Hydrology	
	3	CEGR 3161: Transportation Engineering	
	3	CEGR 3122: Structural Analysis	
	2	CEGR 3153: Transportation Eng. Lab	

		UNC Charlotte Equivalent Course	Notes
<b>Semester 7</b> 18 Credit Hrs	3	CEGR 3278: Geotechnical Engineering	
	2	CEGR 3258: Geotechnical Eng. Lab	
	3	CEGR Design Elective	
	3	MEGR / ECGR Elective	
	3	CEGR Elective	
	3	CEGR 3111: Construction Engineering	

		UNC Charlotte Equivalent Course	Notes
<b>Semester 8</b> 16 Credit Hrs	3	CEGR 3201: Systems and Design	
	3	CEGR Elective	
	3	CEGR 3221/3225: Structural Steel Design I or Reinforced Concrete Design I	
	3	CEGR/Technical Elective	
	3	CEGR Design Elective	
	1	ENGR 3295: Professional Development	

61	Total NCCCS Credit Hours
65	Total UNC Charlotte Hours
<b>126</b>	<b>Total Credit Hours</b>