

Bachelor of Science in Civil and Environmental Engineering					
NOTE: This 4-year plan should be used in conjunction with regular consultation with an advisor					
Required for Admission to UNCC in Civil and Environmental Engineering	If 24 or more transfer hours		OR	If less than 24 transfer hours	
	2.5 Transfer GPA			Transfer admissions requirements	
	MAT 172 or 175 at NCCC			AND Freshman Admissions Requirements	
See Transfer Requirements on the Office of Undergraduate Admissions web page for more details					
Additional Requirements for Admission to the upper division in B.S. Civil Engineering		<i>Not applicable</i>			
Associate of Engineering					
Courses in BOLD are required for the major					
UGETC -- Associate of Engineering					
Area	Prefix/Number	Course Name	Credits	UNC Charlotte Equivalent	Credits
English Composition (6 CR)					
English Composition	ENG 111	Expository Writing	3	UWRT 1101:	3
	ENG 112	Argument-Based Research	3	UWRT 1102:	3
Humanities / Fine Arts (6 CR)					
Arts: (choose <u>ONE</u>)	ART 111	Art Appreciation	3	LBST 1105	3
	ART 114	Art History Survey I		ARTH 1211 (and LBST 1105 exemption)	
	ART 115	Art History Survey II		ARTH 1212 (and LBST 1105 exemption)	
	MUS 110	Music Appreciation		LBST 1103	
	MUS 112	Introduction to Jazz		TRNF 0001 (and LBST 1103 exemption)	
Literature / Philosophy (choose <u>ONE</u>)	ENG 231	American Literature I	3	ENGL 2104 (and LBST 2212 exemption)	3
	ENG 232	American Literature II		ENGL 0001 (and LBST 2212 exemption)	
	PHI 215	Philosophical Issues		PHIL 2101 (and LBST 2211 exemption)	
	PHI 240	Introduction to Ethics		PHIL 0001 (and LBST 2211 exemption)	
	ENG 241	British Literature I		British Literature I (LBST 2212 exemption)	
	ENG 242	British Literature II		Literature Elective (LBST 2212 exemption)	
Social / Behavioral Science (6 CR)					
Required Course	ECO 251	Principles of Microeconomics	3	ECON 2102	3
Social / Behavioral Science (choose <u>ONE</u>)	POL 120	American Government	3	POLS 1110	3
	SOC 210	Introduction to Sociology		SOCY 1101	
	HIS 111	World Civilizations I		HIST 1120 (and LBST 2101 exemption)	
	HIS 112	World Civilizations II		HIST 1121 (and LBST 2101 exemption)	
	HIS 131	American History I		HIST 1160 (and LBST 2101 exemption)	
	HIS 132	American History II		HIST 1161 (and LBST 2101 exemption)	
Science with Lab (12 CR)					
Natural Sciences	CHM 151 + Lab	General Chemistry I + Lab	12	CHEM 1251 + Lab	12
	PHY 251 + Lab	General Physics I + Lab		PHYS 2101 + lab	
	PHY 252 + Lab	General Physics II + Lab		PHYS 2102 + lab	
Mathematics (12 CR)					
Mathematics	MAT 271	Calculus I	12	MATH 1241 (3) + lab credit (1)	12
	MAT 272	Calculus II		MATH 1242 (3) + lab credit (1)	
	MAT 273	Calculus III		MATH 2241 (3) + lab credit (1)	
UGETC Subtotal			42		42

	ACA 122	Academic Transition	1	TRNF 0001	0
Pre Major - Course					
	EGR 150	Introduction to Engineering	2	ENGR 1201	2
Additional General Education and Pre Major Elective Hours					
Science Elective	BIO 110 or GEL 111	Principles of Biology I or Introductory Geology	4	BIOL 1110 (3) + BIOL 1110L (1) or GEOL 1200 (3) + GEOL 1200L (1)	3
	CSC 134	C++ Programming	3	ENGR1202	2
	CEG 151	Cad for Engineering Technology	3	CEGR 2101	2
	MAT 280	Linear Algebra	3	MATH 2164	3
	MAT 285	Differential Equations	3	MATH 2171	3
Education and Pre- Major Elective Subtotal			19		15
TOTAL AA Hours			61		57
UNCC NOTES for concentrations. Only the most significant Pre Major options should be described.					

Bachelor of Science in Civil and Environmental Engineering UNC Charlotte Courses Courses in BOLD are pre-requisites for subsequent courses					
	Course Number	Course Title	Notes	Credits	
Summer	MEGR 2141	Engineering Mechanics I:Statics		3	
Semester #1	CEGR 2102	Engineering Economics		3	
	CEGR 2104	Surveying and Site Design		3	
	STAT 3128	Prob and Stat for Engineers		3	
	MEGR 2144	Introduction to Solid Mechanics		3	
	CEGR 3255	Structural Materials Lab		2	
				14	
Semester #2	CEGR 2154	Design Project Lab		2	
	CEGR 3141	Environmental Engineering		3	
	CEGR 3155	Environmental Eng. Lab		2	
	CEGR 3143	Hydraulics & Hydrology		3	
	CEGR 3161	Transportation Engineering		3	
	CEGR 3153	Transportation Eng. Lab		2	
			<i>Semester Total</i>	15	
Semester #3	CEGR 3278	Geotechnical Engineering		3	
	CEGR 3258	Geotechnical Eng. Lab		2	
	CEGR 3122	Structural Analysis		3	
	MEGR/ECGR Elec.		<i>Select MEGR 3111, MEGR 3121, or ECGR 2161</i>	3	
	MEGR/ECGR Elec.		<i>Select MEGR 3111, MEGR 3121, or ECGR 2161</i>	3	
			<i>Semester Total</i>	14	
Semester #4	CEGR 3111	Construction Engineering		3	
	CEGR Design Elec.		<i>Select from list of approved courses</i>	3	
	CEGR 3221/3225	Structural Steel Design I or Reinforced Concrete Design I		3	
	CEGR Design Elec.		<i>Select from list of approved courses</i>	3	
	ENGR 3295	Professional Development		1	
			<i>Semester Total</i>	13	
Semester #5	CEGR 3201	Systems and Design		3	
	CEGR Elective		<i>CEGR 3000 level course or above</i>	3	
	CEGR Elective		<i>CEGR 3000 level course or above</i>	3	
	Technical Elective		<i>Select from list of approved courses</i>	3	
			<i>Semester Total</i>	12	
			TOTAL UNCC Hours	68	
			TOTAL HOURS	128	