

Rev. Fall 2015	BS: Mathematics				
		NOTE: This 4-year plan should be used in conjunction with regular consultation with an advisor			
Required for Admission to UNCC in Mathematics	If 24 or more transfer hours		OR	If less than 24 transfer hours	
	2.0 Transfer GPA			Transfer admissions requirements	
				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 Mathematics	not applicable				
Associate of SCIENCE					
Courses in BOLD are required for the major					
UGETC -- Associate of SCIENCE					
Area	Prefix/Number	Course Name	Credits	UNC Charlotte Equivalent	Credits
English Composition (6 CR)					
English Composition	ENG 111	Writing and Inquiry	3	UWRT 1101:	3
	ENG 112	Writing and Research in the Disciplines	3	UWRT 1102:	3
Humanities / Fine Arts (6 CR)					
Arts: (choose ONE)	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 ONE)	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)	
Social / Behavioral Science (6 CR)					
Social Science (choose ONE), recommend SOC	ECO 251	Principles of Microeconomics	3	ECON 2102	3
	ECO 252	Principles of Macroeconomics		ECON 2101	
	POL 120	American Government		POLS 1110	
	SOC 210	Introduction to Sociology		SOCY 1101	
History (choose ONE)	HIS 111	World Civilizations I	3	HIST 1120 (and LBST 2101 exemption)	3
	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 (8 CR)					
Sciences (choose one 8-credit sequence or two 4-credit individual courses)	BIO 111 & 112	General Biology I & II	8	BIOL 2120 & BIOL 2130 & BIOL 2140L	8
	CHM 151&152	General Chemistry I & II		CHEM 1251 & 1252 + labs	
	PHY 151 & 152	College Physics I & II		PHYS 1101 & 1102 + labs	
	PHY 251 & 252	General Physics I & II		PHYS 2101 & 2102 + labs	
	AST 151 & 151A	General Astronomy + lab		PHYS 1130 + lab	
	BIO 110	Principles of Biology		BIOL 1110 + lab	
	GEL 111	Introductory Geology		GEOL 1200 + lab	
	PHY 110 & 110A	Conceptual Physics + lab		PHYS 0001 + lab	
Mathematics (8 CR)					
Mathematics (choose TWO)	MAT 171	Pre-Calculus Algebra	8	MATH 1100 (3) + lab credit (1)	8
	MAT 172	Pre-Calculus Trigonometry		MATH 1103 (3) + lab credit (1)	
	MAT 263	Brief Calculus		MATH 1120 (3) + lab credit (1)	
	MAT 271	Calculus I		MATH 1241 (3) + lab credit (1)	
UGETC Subtotal			34		34
Additional General Education					
Cultural / Geographic	ANT 220 or 221	Cultural Anthropology or Comparative Cultures		ANTH 0001 (and LBST 2102 exemption)	
	GEO 111	World Regional Geography		GEOG 1101 (and LBST 2102 exemption)	

Global / Cross Cultural (Choose ONE)	GEO 112	Cultural Geography	3	GEOG 0001 (and LBST 2102 exemption)	3
	POL 210 or 220	Comparative Politics or International Politics		POLS 1130 or POLS 1150 (and LBST 2102 exemption)	
	If BOTH HIS 111 AND HIS 112	World Civilizations I & II		HIST 1120 AND HIST 1121 (gives LBST 2101 and 2102 exemption ONLY if both are taken)	
	MAT 272	Calculus II	3	MATH 1242	3
		Electives	7	Electives	7
Subtotal			13		13
PRE Major - Courses					
	ACA 122	Academic Transition	1	TRNF 0001	1
Computer Science (Choose ONE)	CSC 134	C++ Programming	3	ITCS 1212 + 1212L	3
	CSC 136	FORTTRAN Programming		ITCS 0001	
	CSC 137	Pascal Programming		ITCS 0001	
	CSC 151	JAVA Programming		ITCS 1212 + 1212L	
	MAT 273	Calculus III	3	MATH 2241	3
	MAT 280	Linear Algebra	3	MATH 2164	3
	MAT 285	Differential Equations	3	MATH 2171	3
Pre-major Subtotal			13		13
TOTAL AA Hours			60		60
NOTES	This degree contains Concentrations in Actuarial Science, Economics/Finance, and Operations Research. Some of the related work corresponds to courses required for the concentration. You must review all concentration requirements with an advisor.				
BS -- Mathematics UNC Charlotte Courses Courses in BOLD are pre-requisites for subsequent courses					
Junior Year					
Fall					
	MATH 3688				0
	MATH 2242				3
	MATH 3163				3
	Science with lab				4
	Related work/Minor				6
Spring					
	MATH 3000-level course				3
	MATH 3000-level course				3
	Elective				3
	Related work/Minor				6
Senior Year					
Fall					
	MATH 3141				3
	MATH 3000-level course				3
	Related work/Minor				6
	Elective				3
Spring					
	MATH 3142				3
	MATH 3000-level course				3
	MATH 3689				1
	Related work/Minor				3
	Electives				4
TOTAL UNCC Hours					60
TOTAL HOURS					120