2019-2020 Pathway for Bachelor of Science in Mathematics (Applied Mathematics)

Please see your academic advisor to develop your individual plan. This is only meant to be a guide.

A maximum of 64 hours is transferable from a North Carolina Community College.

Freshman/First Year

First Semester - Fall				Second Semester - Spring			
CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes	CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes
MAT 271	MATH 131 (MLAR)	4	UGETC: Math - AS	MAT 272	MATH 132 (MLAR)	4	GEN ED: Mathematics
	MATH 105	1		ENG 112 or ENG 113 or ENG 114	ENGL 101 (WC)	3	UGETC: Eng Comp- AA & AS
ENG 111	ENGL 100 (WC)	3	UGETC: English Comp - AA/AS		Foreign Language[1] / Elective	3	
	Foreign Language[1] / Elective	3			Math 140	3	
	Global Awareness[2] (GA)	3			MATH 106	1	
ACA 122	FRST 101 (SS)	1	AA/AS Req. Course		AA Hist & Culture[4] (AA)	3	

Sophomore/Second Year

Third Semester - Fall				Fourth Semester - Spring			
CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes	CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes
MAT 273	MATH 231	4	GEN ED: Mathematics		MATH 211	4	
COM 110 or COM 111	SPCH 250 (HFA)	3	GEN ED: Communications or Pre-Major/Elective	PHY 252	PHYS 242 (SR)	3	UGETC: Natural Sciences -AS
	MATH 240	3			PHYS 252 (SR)	1	
PHY 251	PHYS 241 (SR)	3	UGETC: Natural Sciences -AS		Social/Behav Sci.[5] (SBS)	3	
	PHYS 251 (SR)	1		MAT 152	MATH 224	3	UGETC: Math- AA
	MATH 215	1					
Total Credit Hours		**15**		**Total Credit Hours**		**14**	

Junior/Third Year

Fifth Semester - Fall

CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes
	MATH 320	3	
	MATH 351	3	
	MATH 377	3	
	App Area Electives[6]	3	
	Ethical Reas. Elective[7]	3	
	Total Credit Hours	**15**	

Sixth Semester - Spring

CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes
	MATH 341	3	
	MATH 340/365	3	
	App Area Electives[6]	3	
	STAT 324	3	
	Elective	3	
	Total Credit Hours	**15**	

Senior/Fourth Year

Seventh Semester - Fall

CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes
	MATH 432	3	
	App Area Electives[6]	3	
	App Area Electives[6]	3	
	Electives	6	
	Total Credit Hours	**15**	

Eighth Semester - Spring

CC Course	N.C. A&T Equivalent	Credit Hours	Required/Notes
	MATH 496	3	
	App Area Electives[6]	3	
	Electives	8	
	Total Credit Hours	**14**	

Total Required Hours: 120

Listed below are NCAT courses:

[1]Two courses of FREN 101, FREN 102; *or* GERM 101, GERM 102; *or* SPAN 101, SPAN 102; *or* RUSS 101, RUSS 102 taken in sequence.

[2]One course from: HIST 130, 207, 216 *or* PHIL 103 *or* 201.

[3]For students starting in MATH 103, MATH 104, *or* MATH 110, the programming courses should be replaced with electives in the first year. The GEEN 161 and MATH 240 should be taken prior to MATH 340/365. See the Mathematics Student Handbook for a sample program guide.

[4]One course from: HIST 103, 106, *or* 107, *or* LIBS 202, *or* MUSI 220.

[5]One course from: BUED 279, ECON 200 *or* 201, HIST 104 *or* 105, POLI 100, PSYC 101, *or* SOCI 100 *or* 200.

Statistics, Physical Sciences, Engineering and Applied Sciences, Life Sciences, or Business and Economics, and approved by the Applied Mathematics Undergraduate Program Committee. A list of suggested core courses for each of the applications areas is available from the Department of Mathematics.

[7]One course from: PHIL 104, 201, 263, 316, 317, *or* 320.

MAJOR PROGRAM REQUIREMENTS

Students must earn a C or better grade except one passing grade below C if the student has GPA of at least 2.0 but less than 2.3, or two passing grades below C if the student has GPA of at least 2.3 in the following courses:

MATH 105	MATH 320
MATH 106	MATH 340/365
MATH 131	MATH 341
MATH 132	MATH 351
MATH 211	MATH 377
MATH 215	MATH 432
MATH 224	MATH 496
MATH 231	STAT 328
MATH 240	App. Area Electives (5)

All of your GEN ED and UGETC requirements are satisfied, if you have earned an Associate in Arts or Associate in Science Degree from a North Carolina Community College.