

**ASSOCIATE IN SCIENCE
MATHEMATICS and MATHEMATICS EDUCATION
Course Selection Guide
Updated Summer 2024**

Degrees

- NC Central: [BS in Mathematics](#)
- NC State: [BS in Applied Mathematics](#)
- UNC Chapel Hill: [BS in Mathematics](#) (UNC also offers a BA)
- UNC Greensboro: [BS in Mathematics](#) (UNCG also offers a BA)

For more detailed transfer information, refer to the [Transfer Guides](#).

Jobs Associated with These Degrees

Database administrator, financial analyst, market research analyst, budget analyst, accountant, insurance underwriter, cost estimator, and, with graduate study, physicist, information research scientist, teacher/professor, actuary, economist, statistician.

General Education – 45 SHC (“Semester Hours of Credit”)

Universal General Education Transfer Component (UGETC) Courses (34 SHC)

English Composition (6 SHC)

Durham Tech / UGETC Requirement	NCCU	NCSU	UNC-CH	UNCG
ENG 111 Writing & Inquiry	ENG 111	ENG 111	ENG 111	ENG 111
ENG 112 Writing/Research in the Disciplines	ENG 112	ENG 112	ENG 112	ENG 112

Humanities/Fine Arts (H/FA) (6 SHC) – Select two courses from separate disciplines

Durham Tech / UGETC Requirement	NCCU	NCSU	UNC-CH	UNCG
One course selected from ART 111, ART 114, ART 115, COM 120, COM 231, DRA 111, MUS 110, 112	COM 231	COM 120 or 231	COM 120 or 231	Any
One course selected from ENG 231, ENG 232, ENG 241, ENG 242, PHI 215, PHI 240	ENG 231 or 232	Any	Any	Any

Social and Behavioral Sciences (S/BS) (6 SHC) – Select two courses from separate disciplines

Durham Tech / UGETC Requirement	NCCU	NCSU	UNC-CH	UNCG
One course selected from HIS 111, HIS 112, HIS 131, or HIS 132	HIS 112	Any	Any	HIS 111 or 131
One course selected from ECO 251, ECO 252, POL 120, PSY 150, or SOC 210	Any	Any	Any	Any

Mathematics (8 SHC) – Two courses selected from

Durham Tech / UGETC Requirement	NCCU	NCSU	UNC-CH	UNCG
MAT 171, 172, 263, 271, 272	MAT 171	MAT 171	MAT 171	MAT 171
Second Course	MAT 172	MAT 172	MAT 172	MAT 172

Natural Science (8 SHC)

Durham Tech / UGETC Requirement	NCCU	NCSU	UNC-CH	UNCG
BIO 111 and 112; CHM 151 and 152; PHY 151 and 152 or PHY 251 and PHY 252	PHY 251	PHY 251	PHY 251	Any
Second Course in Sequence	PHY 252	PHY 252	PHY 252	Any

UNCCH does not require physics for the BA.

Additional General Education Transfer Hours (11 SHC)

Foreign Language (3 SHC)

Durham Tech Gen Ed Requirement	NCCU	NCSU	UNC-CH	UNCG
Foreign Language: Choose from American Sign Language, Arabic, French, German, or Spanish. FL 112 Must be taken with accompanying lab. Foreign Language must be at 112 level or higher for Durham Tech requirements.	FL 112	FL 112 required by DTCC	FL 211	FL 212

NCSU does not require FL for this major IF two years of FL were successfully completed in high school.

Additional Mathematics/Science Courses (8 SHC)

Durham Tech Gen Ed Requirement	NCCU	NCSU	UNC-CH	UNCG
First Course	MAT 271	MAT 271	MAT 271	MAT 271
Second Course	MAT 271	MAT 271	MAT 271	MAT 271

UNCCH requires MAT 273 for the BS only.

Other Required Hours (15 SHC)

Students should consult with their advisor. The listings here vary, based on the requirements of the selected university and the student's intended major.

College Transfer Success Course (1 SHC)

Durham Tech Requirement	NCCU	NCSU	UNC-CH	UNCG
ACA 122 (This course should be taken in the student's first semester.)	ACA 122	ACA 122	ACA 122	ACA 122

Foreign Language (0-11 SHC)

Durham Tech Requirement	NCCU	NCSU	UNC-CH	UNCG
FL 111/181, 112/182, 211 if needed to meet FL prerequisites.	As Needed	As Needed	As Needed	As Needed

Additional Major Course(s)

Durham Tech Requirement	NCCU	NCSU	UNC-CH	UNCG
Additional college level course(s) to complete the 15 SHC requirement.	CSC 134 HEA 110 MAT 273 MAT 280 MAT 285 PED 110	CHM 151 CSC151 MAT 273	CSC 134 or 151 Additional SCI MAT 273 MAT 280 MAT 285	CSC 151 MAT 273 MAT 280 MAT 285