MATHEMATICS

ASSOCIATE OF SCIENCE
Program Requirements

GENERAL EDUCATION REQUIREMENTS	CREDIT HOURS
COMMUNICATION	**9**
ENGL 1010: English Composition I	3
ENGL 1020: English Composition II	3
COMM 2025: Fundamentals of Communication or any approved speech/communication general education course	3
HUMANITIES & FINE ARTS (minimum 1 course in literature)	**9**
Any approved humanities or fine arts general education course	3
Any approved humanities or fine arts general education course	3
(literature) Any approved humanities literature general education course	3
SOCIAL/BEHAVIORAL SCIENCES	**6**
Any approved Social/Behavioral Sciences general education course[1]	3
Any approved Social/Behavioral Sciences general education course[1]	3
HISTORY	**6**
Any approved History general education course[2]	3
Any approved History general education course[2]	3
NATURAL SCIENCES	**8**
Any approved Natural Sciences general education course sequence with lab[3]	4
Any approved Natural Sciences general education course sequence with lab[3]	4
MATHEMATICS	**4**
MATH 1910: Calculus I	4
GENERAL EDUCATION TOTAL	**42**
AREA OF EMPHASIS REQUIREMENTS (Major)	
MATH 1920: Calculus II	4
MATH 2110: Calculus III	4
MATH 2010: Introduction to Linear Algebra	3
MATH 2120: Differential Equations	3
Programming Language[4]	3
ELECTIVES (unspecified)	**1**
AREA OF EMPHASIS REQUIREMENTS & ELECTIVES TOTAL	**18**
DEGREE TOTAL	**60**

NOTES:

[1] Students who wish to pursue a concentration in actuarial science available at UTC, MTSU, or TSU should complete ECON 2100: Macroeconomics and ECON 2200: Microeconomics to fulfill the requirement in social/behavioral sciences.

[2] Students transferring to UTK must complete a non-U.S. history sequence.

[3] TSU requires PHYS 2110/2120 Calculus-based Physics sequence; Industrial Track of the Professional Mathematics Concentration at MTSU requires PHYS 2110/2120 Calculus-based Physics sequence; UoM requires either PHYS 2110/2120 Calculus-based Physics sequence or CHEM 1110/1120 sequence. TTU requires a two-semester science lab sequence but not including PHYS 2010/2020 as an option.

[4] A programming language course is not required at ETSU. Students transferring to UoM must earn at least a C in this course.

NOTE: Students transferring to MTSU, TSU, TTU, UoM, or UTM must earn a C or better in all listed MATH courses. Students transferring to UTK must earn a C or better in all MATH 2000 level courses.