

Secondary Education - Mathematics

Associate of Science in Teaching



Program and Career Description:

The Associate of Science in Teaching Degree in Secondary Mathematics is an education specialty designed to prepare individuals to teach different course in Mathematics to 6th through 12th grade students. Secondary Mathematics AST is a two-year program designed for students planning to continue their studies toward a bachelor's degree at a four-year college or university. A bachelor's degree could lead to a teacher certification in Secondary Mathematics where you would be able to teach in a public or private school.

How is the Job Market?

Check out www.jobs4tn.gov website for information about job descriptions, education requirements and abilities, and supply and demand for these careers. For additional information from a national perspective, go to Bureau of Labor Statistics, U. S. Department of Labor website at www.bls.gov. Visit the [Occupational Outlook Handbook](#) on this website. Salaries are not guaranteed.

Transfer Options

This program is a Tennessee Transfer Pathway (TTP) major. A student who completes the associates degree in this major is guaranteed that all required community college courses will be accepted in this major at the transfer institution. To see which four-year institutions offer this TTP major and guarantees a seamless transfer, visit the Tennessee Transfer Pathway website at www.tntransferpathway.org.

Transfer agreements exist between other private and non-TN public institutions. These agreements are available at www.columbiastate.edu/transfer-information.

Program Information

Criminal background checks are required of all enrolled education students prior to participating in course required classroom field experiences at affiliate public and private schools. Based on the results of the criminal background check, an affiliate school may determine not to allow a student's presence at their school. This could result in the student's inability to successfully complete the requirements of a specific course and the AST program. More information is available from education lead faculty.

Each student enrolled in education courses must show proof of individual liability insurance prior to the onset of the required classroom field experience. More information is available from the education lead faculty.

Requirements for Graduation include:

- Earning 25% of total program credits in residence at Columbia State.
- Attainment of a 2.75 cumulative grade point average
- ACT cumulative score of 21 or successful completion of approved standardized examination (Praxis Core) for admission to university College of Education Note: MTSU requires a 22 ACT score
- Satisfactory ratings on an index of suitability for the teaching profession
- Students ratings on an index suitability for the teaching profession
- Students transferring to a public university in Tennessee may need to meet additional requirements to gain admittance to the university
- Taking the exit exam.

For more information contact:
Kirstin Davenport at
kdavenport3@columbiastate.edu or 615.465.5762
or
Humanities & Social Sciences Division office at
931.540.2780

Columbia State Community College, a Tennessee Board of Regents institution, is an equal opportunity, affirmative action educational institution.
CoSCC-SE-MATH-02-01-20



Student ID: _____
 Student Name: _____
 Adviser Name: _____

Catalog: 2020-2021 Catalog and Student Handbook
 Program: Secondary Education - Mathematics, A.S.T.
 Minimum Credits Required: _____

Secondary Education - Mathematics, A.S.T.

Major in Tennessee Transfer Pathway with the Emphasis in Secondary Education - Mathematics (A.S.T.)

Sample Academic Plan - Total Credit Hours: 60

Program Requirements - Students may be required to take additional Learning Support courses. Courses cannot be used more than once to satisfy program requirements.

First Year - Fall Semester - Credit Hours: 14

Course Name	Credits:	Term Taken	Grade	Gen Ed
ENGL 1010 - English Composition I	Credits: 3			
MATH 1910 - Calculus I	Credits: 4			
¹ General Education - History Requirement *	Credits: 3			
² General Education - Humanities/Fine Arts Requirement	Credits: 3			
COLS 101 - Columbia State College Success	Credits: 1			

First Year - Spring Semester - Credit Hours: 16

Course Name	Credits:	Term Taken	Grade	Gen Ed
ENGL 1020 - English Composition II	Credits: 3			
MATH 1920 - Calculus II	Credits: 4			
EDU 201 - Introduction to Education **	Credits: 3			
¹ General Education - History Requirement *	Credits: 3			
² General Education - Humanities/Fine Arts Requirement	Credits: 3			

Second Year - Fall Semester - Credit Hours: 17

Course Name	Credits:	Term Taken	Grade	Gen Ed
MATH 2110 - Calculus III	Credits: 4			
COMM 2025 - Fundamentals of Communication OR COMM 2055 Argumentation and Debate	Credits: 3			
² General Education - Literature Requirement	Credits: 3			
⁴ General Education - Natural Sciences Requirement ***	Credits: 4			
⁵ General Education - Social/Behavioral Science Requirement ****	Credits: 3			

Second Year - Spring Semester - Credit Hours: 13

Course Name	Credits:	Term Taken	Grade	Gen Ed
MATH 2010 - Introduction to Linear Algebra	Credits: 3			
MATH 2120 - Differential Equations	Credits: 3			
⁴ General Education - Natural Sciences Requirement ***	Credits: 4			
⁵ General Education - Social/Behavioral Science Requirement ****	Credits: 3			

General Education Requirements (Only When Option Noted Above)

¹**History Requirement** - Select from HIST 2010, HIST 2020, HIST 2030, HIST 2310, HIST 2320.

²**Humanities/Fine Arts Requirement** - Select from ART 1035, ART 2000, ART 2020, ENGL 2160, ENGL 2860, HUM 1010, HUM 1020, MUS 1030, PHIL 1030, PHIL 1040, PHIL 2200, THEA 1030. **Literature Options:** ENGL 2055, ENGL 2130, ENGL 2235, ENGL 2310, ENGL 2320.

³**Mathematics Requirement** - Select from MATH 1010, MATH 1130, MATH 1530, MATH 1630, MATH 1710, MATH 1720, MATH 1730, MATH 1830, MATH 1910.

⁴**Natural Sciences Requirement** - Select from ASTR 1030, BIOL 1010, BIOL 1020, BIOL 1080 (*must pair with non-biology course except for BIOL 2010 or BIOL 2020*), BIOL 1110, BIOL 1120, BIOL 2010, BIOL 2020, CHEM 1110, CHEM 1120, ESCI 1010, ESCI 1020, PHYS 2010, PHYS 2020, PHYS 2110, PHYS 2120, PSCI 1030.

⁵**Social/Behavioral Science Requirement** - Select from ANTH 1230, ANTH 1430, COMM 1010, ECON 2100, ECON 2200, GEOG 2010, PHED 2120, POLS 1010, POLS 1030, POLS 2025, POLS 2035, PSYC 1030, PSYC 2130, SOCI 1010, SOCI 1040, SOCI 2010.

Note(s):

*Students should confer with their advisor or a representative of the university to which they intend to transfer to determine the recommended history courses. Students who intend to transfer to UT Knoxville should take 6 credit hours of a non-U.S. History sequence to fulfill the History requirements. UT Chattanooga requires that one of the History courses be a non-Western cultures course.

**Students who intend to transfer to MTSU's, ETSU's, or UT Knoxville's secondary education program should follow the Mathematics AA/AS TTP and not the AST TTP. ETSU and UT Knoxville recommend and MTSU requires that students take education courses after transfer.

*** PHYS or CHEM are recommended. Students who intend to transfer to UT Chattanooga should take either calculus-based or non-calculus-based Physics sequence. UT Martin requires an additional Chemistry sequence 1010/1020 and PHYS.

****University of Memphis requires two of the following three courses to satisfy the social behavioral science requirement: Survey of World Regions, Intro to Cultural Geography, or American Government. University of Memphis also requires Intro to Biology and Lab in place of PHYS 1040.

Additional AST Degree Requirements

1. Students earning an AST degree must meet the following:

- Achievement of a "C" or better in all Math courses listed
- ACT cumulative score of 21 (SAT 1020) or successful completion of approved standardized examination (Praxis Core) for admission to university College of Education. NOTE: MTSU and UT Chattanooga require a 22 ACT score.
- Attainment of a 2.75 cumulative grade point average. Successful completion of approved standardized examination for admission to university's College of Education.
- Satisfactory ratings on an index of suitability for the teaching profession.

2. Students transferring to a public university in Tennessee may need to meet additional requirements to gain admittance to the university.

Check www.tntransferpathway.org to see which four-year institutions offer this TTP major. Students should meet with their assigned advisor to determine courses required for the university chosen.

Students and advisors should run a degree audit from myChargerNet each semester to confirm classes are applicable to the program of study.

For more information contact:

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