

# Master of Arts in Teaching (M.A.T.) Secondary STEM

DIVISION OF  
EDUCATION

## DEGREES AWARDED:

- M.A.T. in Secondary Biology
- M.A.T. in Secondary Chemistry
- M.A.T. in Secondary Mathematics

## CAREER OPPORTUNITIES

- Middle School Teacher
- High School Teacher
- Middle School Administrator
- High School Administrator

## EXTERNAL RELATIONSHIPS

- Alcoa City Schools
- Blount County Schools
- Clayton-Bradley STEM Academy
- Great Smoky Mountains National Park
- Great Smoky Mountains Institute at Tremont
- Knox County Schools
- Loudon County Schools
- Maryville City Schools
- Oak Ridge National Laboratory

## REQUIRED COURSES

- EDU 500: Foundations of STEM Education (3 hrs.)
- EDU 501: Models of Teaching Secondary Curriculum & Methods (3 hrs.)
- EDU 502: Technology for the Secondary Classroom (3 hrs.)
- EDU 512: Effective Teaching Practices for Exceptional Diverse Secondary Students (3 hrs.)
- EDU 521: Disciplinary Literacy for Middle Level and Secondary Students (3 hrs.)
- EDU 551: Applied Pedagogy for Classroom Teachers I (3 hrs.)\*
- EDU 552: Applied Pedagogy for Classroom Teachers II (3 hrs.)\*\*
- EDU 600: Clinical Experience I (3 hrs.)\*\*
- EDU 601: Clinical Experience II (3 hrs.)\*\*
- EDU 611: Educational Assessment in the Secondary Classroom (3 hrs.)
- EDU 630: Research Methods in Education (3 hrs.)
- EDU 651: Teacher Assessment I (3 hrs.)\*
- EDU 652: Teacher Assessment II (3 hrs.)\*

\*Candidates will complete either EDU 551 and 552 or EDU 651 and 652 depending on their clinical practice pathway.

\*\*In these courses, candidates are paired with a mentor teacher and work full-time in grades 6-12 classrooms.



**MARYVILLE**  
COLLEGE  
IN THE GREAT SMOKY MOUNTAINS

## Why choose Maryville College for an M.A.T. in Secondary STEM?

Maryville College's Master of Arts in Teaching (M.A.T.) Secondary STEM is designed to help working professionals – people who already have a bachelor's degree in mathematics, biology, chemistry, or related field – earn an M.A.T. in one of three licensure areas: Secondary Biology, Secondary Chemistry, or Secondary Mathematics. After completing the program, graduates will be prepared to teach in grades 6-12, where schools currently are seeing a shortage of applications from qualified STEM teachers. Also, graduates will enter the workforce at a competitive salary: In East Tennessee, first-year educators with a master's degree in teaching earn, on average, \$8,300 more than those who enter the profession with only a bachelor's degree.

In addition to its curricular strength in the sciences and mathematics and its excellent reputation for educator preparation, Maryville College's M.A.T. degree program has several advantages over similar degree programs, specifically:

- An accelerated, one-year curriculum
- A small, cohort model that ensures students receive individual attention from faculty and support from a peer group
- Job-embedded pathways that allow schools to hire candidates while they are finishing the program
- All courses offered online with synchronous meetings
- Partnerships that give students practical experiences and unique opportunities for research and networking
- Access to Maryville College's facilities and services, including the library, fitness center, and teletherapy

## MEET A RECENT GRAD



### Hallie Garber '25

Algebra 2 Teacher at Coffee County High School in Manchester, TN

After completing majors in Theatre Studies and Mathematics at Maryville College in 2024, Hallie chose to continue her education at MC in the M.A.T. STEM program. According to Hallie, the program is unparalleled, and she says, "no other program would have allowed me to so quickly change my career in such a successful manner."

Originally coming to MC for a career in theatre tech, Hallie decided to pursue teaching during her senior year. Currently an Algebra 2

teacher, Hallie is thankful for the remote option so she could complete her master's degree from 100 miles away. She has confidence that teaching is her long-term career and is leaving her options open to one day teach at the collegiate level.

## MEET A RECENT GRAD



### Laci Stinnett Pryor '23

Currently: Teaching at Roane County High School in Kingston, TN

Laci currently teaches Biology, Ecology and Earth and Space Science. She also works with the Tennessee STEM Innovation Network, serving on the Tennessee Rural STEM Collaborative Cohort. The network gathers educators from across Tennessee to problem-solve issues specific to rural schools.

"I took away so much valuable information from my time in the MAT program," she said. "Learning all about experiential learning, problem-based learning and how to incorporate all facets of STEM into my classroom has really been the foundation of my classroom."

## FOR MORE INFORMATION:

visit [maryvillecollege.edu/MAT-STEM](http://maryvillecollege.edu/MAT-STEM) or call 865.981.8092