

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 600: Clinical Experience I (4 hrs.)*
EDU 601: Clinical Experience II (6 hrs.)*
EDU 611: Educational Assessment in the Secondary Classroom (3 hrs.)
EDU 630: Research Methods in Education (3 hrs.)
EDU 651: Teacher Assessment I (2 hrs.)
EDU 652: Teacher Assessment II (3 hrs.)

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

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 (May to April)
- A small, cohort model that ensures students receive individual attention from faculty and support from a peer group
- Graduate student housing available
- Job-embedded pathways that allow schools to hire candidates while they are finishing the program
- All courses offered as hybrid or online
- 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 telehealth

MEET A CURRENT SCOT



Laci Stinnett Pryor

High school biology teacher, Concord Christian School in Farragut, Tenn.

"The MAT program at Maryville College has been an indispensable asset in preparing me to become a successful STEM educator. This program has shown me how to implement high-leverage STEM practices in the classroom while equipping me with the skills to better support diverse and underrepresented students. The job-embedded pathway has been an instrumental option for me, allowing me to work in the classroom while

finishing the program. The professors have all been so supportive and genuinely care about preparing us to become the next generation of educators."



FOR MORE INFORMATION:

visit maryvillecollege.edu/MAT-STEM or call 865.981.8092