

**UMBC**  
**Masters of Arts in Education (MAE)**  
**Concentration in STEM Education**  
**Secondary Engineering/Technology Education**  
**Regional Pilot Program**

The University of Maryland, Baltimore County (UMBC) is offering a 36-credit, 12-course non-thesis Masters of Arts in Education Degree with a focus on STEM Engineering/Technology Education. This program is designed to provide experienced teachers content knowledge, pedagogical content knowledge and enhance leadership skills across STEM disciplines. Program completion will result in the Masters of Arts degree.

**Recruiting for New Cohort**  
**In**  
**Secondary Engineering/Technology Education!**  
**Applications accepted now through July 25<sup>th</sup>, 2018**

**Program Schedule**

The programs will run from Fall 2018 through Summer 2021 (3-year program). Teachers will attend four courses per year.

**Admission Requirements**

- Undergraduate degree with a GPA of 3.0 or higher
- Teaching certificate
- Three professional or academic references
- Statement of goals/purpose

**Program Delivery**

UMBC will offer all courses on UMBC satellite sites near the main campus. Courses will be hybrid with a combination of face-2-face and online class sessions.

**Program Cost**

Reduced Tuition: Program participants will pay a reduced tuition rate of \$1,050.00 per course (\$350.00 per credit).

**For more information, please email:**

Dr. Tracy Irish

Science/STEM Clinical Faculty

UMBC

[tirish1@umbc.edu](mailto:tirish1@umbc.edu)

410-455-3050

The University of Maryland Baltimore County (UMBC)  
 STEM Regional Technology Education Program  
 Masters of Arts in Education Concentration in STEM  
 3-year Course Progression Chart

**Year 1**

Semester	Fall '18	Spring '19	Summer '19
Course Number	STEM 533	STEM 506*	STEM XXX**
Course Name	Culturally Responsive Teaching in STEM	The Designed World	Applications of Engineering
Course Number			EDUC 772
Course Name			Assessment and Evaluation

**Year 2**

Semester	Fall '19	Spring '20	Summer '20
Course Number	EDUC 771	EDUC 795	EDUC 502
Course Name	Research Designs in Education	Seminar in the Study of Teaching	The Active Science and Mathematics Classroom
Course Number			STEM XXX
Course Name			Principles of Computer Science for Engineering

**Year 3**

Semester	Fall '20	Spring '21	Summer '21
Course Number	EDUC 781	EDUC 785	STEM XXX
Course Name	Teacher Leadership	Advanced Instructional Leadership Practicum	Making by Design
Course Number			STEM 550
Course Name			Emerging Technologies & Applications

**\*STEM 506 can be replaced with PLTW Introduction to Engineering Design (IED)**

**\*\* Applications of Engineering can be replaced by PLTW Principles of Engineering (POE)**

**Both replacements with accepted graduate coursework through UMBC**

**The University of Maryland, Baltimore County (UMBC)**  
**Master of Arts in Education (MAE)**  
**Secondary Engineering/ Technology Education Regional Program**  
**Fall 2018 to Summer 2021**

**Program Overview:**

UMBC intends to offer the MAE program for teachers who want to increase their understanding and implementation of technology and engineering content knowledge, strengthen pedagogy and enhance teacher leadership through graduate level courses. Applicants who are admitted to this program will be admitted and registered as bona fide graduate students of UMBC. Participants completing the program with 36 approved graduate credits will be awarded the Master of Arts in Education (MAE) with a concentration in STEM Education.

The regional group will begin in **Fall 2018**. UMBC will offer program participants four, 3-credit courses or twelve (12) credits per academic year during the spring, summer and fall semesters. Regional group participants are expected to complete the program in three (3) years at the end of **Summer 2021**. Courses are scheduled after school and will be located in a facility near UMBC.

**How to Apply for the STEM MAE Technology Education Regional Group Program:**

Prospective participants will begin by mailing the documents outlined in **STEP 1** by **July 25, 2018** to **Dr. Tracy Irish, UMBC Dept. of Education, 1000 Hilltop Circle, Baltimore, MD 21250**.

Through review of **STEP 1** documents, UMBC will determine whether your background and qualifications meet the program acceptance requirements and if the group has substantial numbers to begin. If so, you will be asked to complete **STEP 2** of the online graduate application process (instructions enclosed).

**Tuition:**

Each participant will be responsible to pay tuition each semester for all nine (9) credits taken in each academic year, and will be billed directly by UMBC at the current UMBC discounted tuition at \$1,050.00 per course or \$350.00 per credit. Participants will automatically be billed the tuition upon registering for the course. Participants can access accounts and pay electronically through *myUMBC*, "Billing & Financials". University deadlines and late fees will apply.

**Fees:**

A Graduate Application fee of \$50 will be required when applying online to the Graduate School. Participants will be billed a one-time matriculation fee of \$200. A one-time Education Department Accountability System (Tk20) fee of \$100 must be paid directly to Tk20. A technology fee, currently \$15 per credit, will be charged each semester. Other University fees could be assessed if warranted – e.g. late payment, late registration, library, or parking violations. During the final semester if choosing to walk in commencement, participants will have to pay for regalia rental. These rates are subject to change based on university policies. All other standard fees associated with graduate courses will be waived. All fees are non-refundable.

**Textbooks:**

Teachers participating in the program will be responsible for purchasing their textbooks. We recommend using an online service such as Amazon.com. The course instructor will provide detailed information regarding textbook requirements each semester.

**Registering for Courses:**

Registration is completed on-line through *myUMBC*. Prior to each semester, participants will be contacted by email of the non-published “class number” which will be required to register. Participants are required to register before the start of each class. University deadlines and late registration fees will apply.

**Dropping a course, Withdrawing or Leave of Absence:**

UMBC Department of Education is committed to each participant’s success as a graduate student. Your participation in the regional group is a personal, as well as, a group commitment. If a participant feels that they must interrupt their studies for any reason, please inform the Academic Program Director of your decision. University policies regarding drop and withdrawal can be found at:

[www.umbc.edu/sbs/tuition](http://www.umbc.edu/sbs/tuition).

**Other UMBC Courses or Programs:**

The requirements and costs outlined above pertain specifically to courses offered through this regional group program. Participants who wish to pursue coursework or degrees outside of this program will be subject to standard university tuition costs, fees, and procedures for registration and admission.

**Final Grades:**

Participants can access unofficial and purchase official transcripts on-line through *myUMBC*. Participants are responsible for obtaining official transcripts and requesting any possible reimbursement from their school system.

**Application Process****STEP 1: Submit the following documents to apply to the MAE Regional Group Program:**

- 1. Teacher Profile Form – keep a copy for your records and refer to when filling out your application.
  
- 2. Transcripts – only official copies (sealed) of all of your transcript(s) showing GPA obtained and certifying completion of the bachelor’s degree will be accepted. If you have earned a graduate degree or completed any graduate coursework, include these transcripts as well. Please include all sealed transcripts in this application package. If your college/university sends an electronic transcript, it must be sent directly to UMBC’s Graduate School.
  
- 3. Goal Statement - two-paged, double-spaced essay addressing the following questions:  
(1) What are your professional goals for participating in the UMBC MAE Regional Group Program?

(2) What do you see as the main benefits of this program, long and short term, for both you and your students?

- 4. Three Letters of Recommendation – these should be business or professional only and each should be in a sealed envelope and enclosed in your application packet.
- 5. Certified Teacher in Maryland validation - either a copy of your teaching certificate or letter from your principal confirming certification status.
- 6. Registration & Tuition Agreement

 **Use a paperclip; do not staple the application materials.**

 **All “official” transcripts and recommendations must be sealed.**

 **If necessary, transcripts and/or recommendations can be mailed directly to Dr.**

**Tracy Irish (address below).**

**STEP 2: Submit online Graduate Application upon notification that you eligible to participate in the program within 5 business days. STEP 2 instructions are included in this packet.**

- 1. UMBC Graduate Application online – you must apply online to be admitted to UMBC Graduate School. Instructions enclosed.
- 2. \$50.00 Graduate Application Fee

### **QUESTIONS?**

**For information regarding eligibility for the UMBC MAE Regional STEM Program, please contact:**

**Dr. Tracy Irish**

**Science/STEM/Technology Education Coordinator, MAE**

UMBC Department of Education

1000 Hilltop Circle, Baltimore, MD 21250

[tirish1@umbc.edu](mailto:tirish1@umbc.edu)

410-455-3050 Office

410-455-8192 Fax

**Mrs. Rita Williams**

**MAE Program Coordinator**

UMBC Department of Education

1000 Hilltop Circle, Baltimore, MD 21250

[ritaw@umbc.edu](mailto:ritaw@umbc.edu)

410-455-6579 Office

410-455-8192 Fax

**Teacher Profile Form**  
**UMBC**  
**Master of Arts in Education (MAE)**  
**STEM Regional Secondary Engineering/Technology Education**

**Please Print**

1. Name: \_\_\_\_\_

2. Address: \_\_\_\_\_

3. Phone number(s): Cell: \_\_\_\_\_ Work: \_\_\_\_\_

4. Email(s): Primary: \_\_\_\_\_ Secondary: \_\_\_\_\_

5. Current teaching assignment:

Name of School System: \_\_\_\_\_

Name of School: \_\_\_\_\_

Grade(s): \_\_\_\_\_ Subject(s): \_\_\_\_\_

Number of years of teaching experience: \_\_\_\_\_

Area(s) of certification: \_\_\_\_\_

6. University Name and Education/Undergraduate Degree: \_\_\_\_\_

Maiden or alternate name on transcript: \_\_\_\_\_

Year(s) \_\_\_\_\_ to \_\_\_\_\_ Degree Earned: \_\_\_\_\_ GPA: \_\_\_\_\_

7. Education/Other Schools (e.g. Graduate; Community Colleges)

Name: \_\_\_\_\_ Year(s): \_\_\_\_\_ to \_\_\_\_\_ Degree: \_\_\_\_\_ GPA: \_\_\_\_\_

Name: \_\_\_\_\_ Year(s): \_\_\_\_\_ to \_\_\_\_\_ Degree: \_\_\_\_\_ GPA: \_\_\_\_\_

8. Emergency Contact Name & Number:

\_\_\_\_\_

**University of Maryland, Baltimore County (UMBC)  
Master of Arts in Education (MAE)  
STEM Regional Secondary Engineering/Technology Education  
Registration & Tuition Agreement**

By signing this form, I understand:

- (1) I am responsible to pay \$1050.00 for each course. Billing will occur at the time of registration. Payment will be made electronically through *myUMBC* and university deadlines apply.
- (2) As a UMBC Graduate Student, I must maintain a 3.0 GPA or I may be subject to dismissal.
- (3) If I receive an incomplete (I) in a course, I will work with the instructor and MAE Academic Program Director to complete the coursework in a timely manner.
- (4) If I receive a "D" or "F" (failing grade) for a course, I must retake the course in accordance with the UMBC Graduate School policies. No student may graduate with an unresolved "D", "F" or "I" in a required MAE course.
- (5) If I need to interrupt my studies for any reason, I will inform the Academic Program Director.
- (6) I am responsible to drop a course online through *myUMBC* and will be subject to the University guidelines for refunds.

**Print Name:** \_\_\_\_\_

**Signature Required:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Thank you.**

**This form will remain on file in the MAE Program Office**