K-8 STEM Education
Masters of Arts in Education
Regional Program

Starting Spring 2017

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 education. This program delivers an integrated series of content and pedagogical content courses across STEM disciplines to broaden and expand teachers' breadth and depth in teaching and learning in STEM. This program also provides experienced teachers an opportunity to learn and practice leadership skills in STEM education.

Interested K-8 Teachers are invited to attend an Information Session.

Information Session: 5:00-6:00 pm October 20th 2016

The Information Session Location:
Professional Studies Building Room U572 (directions attached)

Program Schedule
The program will run from Spring 2017 through Fall 2020 (4 year program). Teachers will attend three courses per year.

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

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: Cohort will pay a reduced tuition rate of $1,050.00 per course ($350.00 per credit).

For more information, please contact:

Tracy Irish
Science/STEM MAE Program Faculty
UMBC
tirish1@umbc.edu
410-455-3050

Directions to UMBC BW Tech South
1442 South Rolling Road
Halethorpe, MD 21227

FROM (I-95):

Take exit 47 B, towards MD-166/Catonsville. Stay in the middle land on SR-166 towards MD-166/Catonsville. **Do not take the UMBC campus exit to the right**.

Turn LEFT at stop sign onto S. Rolling Road. Turn right at the next intersection onto S. Rolling Road/Gun Road. (If you go over a bridge, you have gone too far). Continue on the road that bears left following the signs to the UMBC South Campus complex. Follow directions below to the building.

FROM (I-295):

Exit at I-195 west toward Catonsville. Once past I-95, follow the directions above.

FROM (I-695):

Take I-695 heading West. At exit 12B-C, take Ramp towards MD-372/Wilkens Avenue. Turn LEFT onto Wilkens Avenue/ MD-372 W. Follow road through the traffic circle. Turn LEFT onto MD-166 South (Rolling Road). Past the I-I95 exchange, turn Right onto S. Rolling Road/Gun Road. (If you go over a bridge, you have gone too far.) Continue on the road that bears left following the signs to the UMBC South Campus complex. Follow directions below to appropriate building.

FROM (I-83):

Take I-83 to I-695 West and follow directions from I-695.

Professional Studies Building (Behind Main Building):

Once in the South Campus, turn right at the main sign and go up the hill. Parking is located on the RIGHT.   Once you park, walk up the hill and the Classroom Building is on your right.

University of Maryland, Baltimore County (UMBC)
Master of Arts in Education
K-8 Science, Technology, Engineering,
and Mathematics (STEM) Education
Regional Program

Program Overview:
UMBC is offering a program for K-8 teachers who want to increase their understanding and implementation of Science, Technology, Engineering and Mathematics (STEM) 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 with a concentration in K-8 STEM and will be eligible for the Maryland State Department of Education (MSDE) endorsement: Instructional Leader: STEM (PreK-6).

The cohort will begin in the **Spring 2017**. UMBC will offer 3 three-credit graduate courses (9 total credits) per academic year during the spring, summer and fall semesters. Cohort participants are expected to complete the program in four years by **Fall 2020**. Courses are scheduled to meet from 4:30 – 7:00 pm every semester. All courses will meet on UMBC's South Campus.

How to Apply for the MAE Program:
Applicants must submit the **STEP 1** application package to **Tracy Irish, STEM/Science Academic Coordinator, UMBC Department of Education 1000 Hilltop Circle, Baltimore, MD 21250** by **Wednesday, November 23, 2016**. Applicants whose background and qualifications are best suited for the program will be accepted. Once a viable group of participants have been established, 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 twelve (12) credits taken in the academic year, for each year of the cohort. Participants will be billed directly by UMBC at $1,050.00 per course. Participants will automatically be billed the tuition upon registering for the course. Participants must access accounts, to see their bill and may pay electronically through myUMBC, "Billing and Financials".

Fees:
A graduate application fee of $50 will be required when applying online to the Graduate School. In the first two consecutive semesters of study, participants will be billed a total matriculation fee of $200. A one-time Education Department Accountability System (Tk20) fee of $100 must be paid directly to Tk20 within the first year of the program. A technology fee, currently $14 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. Other university fees could be assessed if warranted – e.g. late payment, late registration, library, or parking violations. 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.

Text Books:
Teachers participating in the program will be responsible for purchasing their text books. We recommend using an online service such as Amazon.com. The course instructor will provide detailed information regarding text book 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 would apply.

Dropping a course, Withdrawing or Leave of Absence:
HCPSS and UMBC Department of Education are committed to each participant's success as a graduate student. Your participation in the cohort is a personal, as well as a group commitment. If a participant feels that they must interrupt their studies for any reason, please consult with the UMBC STEM/Science Academic Program Coordinator.

Other UMBC Courses or Programs:
The requirements and costs outlined above pertain specifically to cohort courses offered through this Regional Cohort. 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 transcripts and can purchase official transcripts online through myUMBC. Participants who wish to pursue other coursework or degrees outside of this program will be subject to standard university tuition costs, fees, and procedures for registration and admission.

STEP 1: Submit the following documents by November 23, 2016 to apply:

☐ **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 please include transcripts for this as well. 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 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 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 HCPSS / UMBC cohort program, please contact:

Tracy Irish
STEM/Science Academic Coordinator, MAE
UMBC Department of Education
1000 Hilltop Circle, Sherman Hall, Rm. 209B
Baltimore, MD 21250
Office Phone: 410-455-3050
tirish1@umbc.edu

For information regarding the UMBC admission, registration and billing process, please contact:
Rita Williams
MAE Program Coordinator
UMBC Continuing & Professional Studies
ritaw@umbc.edu
410-455-6579 Office
410-455-8192 Fax

Teacher Profile Form
UMBC
Master of Arts in Education (MAE)
Regional STEM

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. Education/Undergraduate Degree:

   Maiden or alternate name on transcript: _____

   School Name: _____

   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: _____

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)
Regional STEM
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 *my*UMBC and university deadlines apply.

(2) (2) I am responsible for the following fees $14 per credit (Technology), one time $50 (Application), one time $200 (Matriculation), one-time $100 (Tk20), and the optional graduation regalia. These fees are subject to change.

(3) As a UMBC Graduate Student, I must maintain a 3.0 GPA or I may be subject to dismissal.

(4) 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.

(5) 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.

(6) If I need to interrupt my studies for any reason, I will inform the Academic Program Director.

(7) I am responsible to drop a course online through *my*UMBC 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

University of Maryland, Baltimore County
Master of Arts in Education with a concentration in STEM
Regional Cohort

Includes 36 total credit hours
Non-thesis option

Year 1

Semester	Spring '17	Summer '17	Fall '17
Course Number	STEM 533	SCIE 534	STEM 506
Course Name	Culturally Responsive Teaching in STEM	Experimental Design	The Designed World

Year 2

Semester	Spring '18	Summer '18	Fall '18
Course Number	SCIE 504	EDUC 772	EDUC 771
Course Name	Environmental Science	Assessment and Evaluation	Research Designs in Education

Year 3

Semester	Spring '19	Summer '19	Fall '19
Course Number	STEM 509	EDUC 502	EDUC 795
Course Name	Environmental Engineering Design	The Active Mathematics and Science Classroom	Seminar in the Study of Teaching

Year 4

Semester	Spring '20	Summer '20	Fall '20
Course Number	EDUC 781	STEM 550	EDUC 785
Course Name	Teacher Leadership	Emerging Technologies and their Applications	Advanced Instructional Leadership Internship