



Emphasized Techniques:

- Inquiry teaching methodologies
- UV/visible spectroscopy
- Potentiometric titration
- High Performance Liquid Chromatography (HPLC)
- Thin Layer Chromatography (TLC)
- Infrared (IR) spectroscopy
- Vernier Probeware

Application Review begins
February 1, 2010 –
Apply early for consideration

Openings for 20 applicants



UMBC
AN HONORS
UNIVERSITY
IN MARYLAND

Teacher Quality in Chemistry Program at UMBC

**APPLY NOW -
PROGRAM LIMITED TO
20 PARTICIPANTS**

More details and the application
are available online at:

<http://www.umbc.edu/TQC>

Made possible by the Maryland
Higher Education Commission and
the UMBC College of Natural and
Mathematical Sciences, the UMBC
Departments of Chemistry &
Biochemistry and Education

**Teacher Quality in
Chemistry Program
at
UMBC**

**A Professional
Development Program
for Maryland High
School Chemistry
Teachers**

*UMBC...helping
Maryland's STEM
teachers to be more
highly qualified since
1992*

Teacher Quality in Chemistry Program at UMBC

UMBC is now accepting applications for the fourth year of its comprehensive, four-phase teacher professional development program in chemistry. TQC is designed to help participants to become more **highly qualified** through face-to-face and online instruction with UMBC Chemistry faculty.

Participants learn and practice active learning teaching strategies and work with the TQC education coordinator to develop specific **classroom applications** for course concepts and procedures.

Workshop experiences, which feature hands-on instruction, are designed to be easily **repeated** by participants in their classrooms and to **reinforce** teacher knowledge of chemistry topics.

Participants will leave the program with new and complete **lesson plans** that integrate with **Vernier probeware**, available to participants through a loaner library

Guided self-evaluations using UMBC Department of Education resources help to ensure that participants **master** new laboratory and pedagogy skills and can successfully implement the lesson plans they have developed for their classrooms.

Event Schedule*

PHASE ONE

Preparatory Instruction

March 23, April 6, 13, 20, 27 and May 4, 11, 18, 2010 - 5:00 to 8:00 p.m. with supplemental online exercises and meetings

PHASE TWO

"Hands-On" Summer Chemistry Practicum

June 21 to July 2, 2010, weekends excluded - 9:00 a.m. to 4:00 p.m. daily

PHASE THREE

Follow-up Reflection Session

October 12, 2010 - 5:00 to 8:00 p.m.

PHASE FOUR

Poster Work Sessions – scheduled individually

Classroom Visits – scheduled individually

Gala Share Our Success Saturday Seminar

April 23, 2011 - 9:00 a.m. to 4:00 p.m.
Held with participants in the Teacher Quality in Biology (TQB) Program at UMBC

*Tentative dates –please note that snow day or other adjustments will be made, as necessary, and that the practicum could extend to July 6, 7, and/or 8.

Benefits:

- Up to \$2,475 from attendance-based stipends of \$150/full day or \$75/afternoon
- Three graduate credits in Chemistry
- Free tuition to all participants who satisfactorily complete the program
- Free course books, lab notebooks, and manuals
- Free campus housing during the ten-day summer course to a limited number of participants
- Opportunity to apply for limited child-care supplements



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TQC PROGRAM AT UMBC

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