# Mathematics Assessment and Curriculum (K-12) online (2709)

**WITH:**
- Shephali Fox
- Victoria Miles

**DATES:** TBD  
**LOCATION:** online

## DESCRIPTION

This course develops an understanding of the interplay between curriculum design and assessment in mathematics. Participants build a strong foundation of assessment, curriculum design and effective math assessment practices through critical learning experiences. Specific topics to be covered include the data triangle, types of assessments, the purpose of the UBD model, protocols for analyzing student work and using the results to make informed decisions in curriculum design, effective use of rubrics/scoring guides, and the importance of standards-based instruction and its role in PARCC/MCAS/MAP testing. The course will draw on teachers’ insights and knowledge base of assessment, curriculum design and effective math practices and provide a balance of theory and practice as well as individual and group work in an online environment.

## GOALS / OBJECTIVES

As a result of the learning experiences in the course, participants will:

- Deepen their understanding of the purposes of assessment of learning
- Identify the characteristics and elements of sound assessment strategies and programs
- Discuss assessments that allow students to construct thoughtful responses and solve problems rather than recite remembered algorithms
- Explore a range of assessment tools, including teacher records, portfolios of student work, performance tasks, MCAS or other large scale tests
- Be able to utilize the standards provided by the National Council of Teacher of Mathematics to develop assessments
- Increase their ability to use assessment data to improve teaching and learning of mathematics
- Learn to balance data gathering and analysis with data sharing with students, families, colleagues, district and the public

## CONNECTIONS WITH INITIATIVES

MA Curriculum Framework in Mathematics and Common Core State Standards

## INTENDED AUDIENCE

This course is designed for all current and aspiring math educators and specialists, instructional specialists, and department chairs.
<table>
<thead>
<tr>
<th>NUMBER OF TOTAL SESSIONS:</th>
<th>10 weekly units</th>
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<tbody>
<tr>
<td>NUMBER OF TOTAL HOURS:</td>
<td>37.5</td>
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<tr>
<td>CREDITS/PDPs:</td>
<td>3 credits (optional) /opportunity to earn up to 67.5 PDPs</td>
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<td>COST: (billed at time of registration)</td>
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<tr>
<td>$700 per participant (no credit)</td>
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<td>• $700 course fee (payable to Teachers21)</td>
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<td>• $50 online technology fee (payable to Fitchburg State University)</td>
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<td>$1,006 per participant (for 3 graduate credits)</td>
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<td>• $700 course fee (payable to Teachers21)</td>
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<tr>
<td>• $306 combined credit and online technology fee (payable to Fitchburg State University)</td>
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REGISTER ONLINE HERE (2709) – Teachers21 (REQUIRED)

In addition, you must register with Fitchburg State University

No credit option (PDP’s only - $750)
Online access/technology fee – enter CRN #31449 Course PDMT 6218P

3 credit option ($1,006)
3 credits plus online access/technology fee – enter CRN #31448 Course 6218E

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