

Revision of the North Carolina Mathematics Standard Course of Study

Background Information

The process for curriculum revision was amended in February 2002 (HSP-F-012). The process requires prior permission by the State Board of Education in order to revise an area of the *North Carolina Standard Course of Study*. Based on feedback from stakeholders, permission is requested to revise the *North Carolina Standard Course of Study for Mathematics K-12*.

Guiding Principles

Factors that support revision

1. **Globally Prepared Students** [Trends in Mathematics and Science Study (TIMSS); Programme for International Student Assessment (PISA); Partnership for Twenty-First Century Skills Framework; American Diploma Project (ADP); and numerous other reports]
2. **Alignment with rigorous mathematics options proposed in the Core Course of Study**
3. **Alignment with post-secondary expectations** [Changes in the National Assessment for Educational Progress (NAEP) Framework for Mathematics, Grade 12; importance of alignment K-16]
4. **Alignment with national curriculum documents** [Curriculum Focal Points published in 2006 by the National Council of Teachers of Mathematics (NCTM); Guidelines for Assessment and Instruction in Statistics Education published in 2005 by the American Statistical Association (ASA); College Board Standards for Success: Mathematics and Statistics published in 2006 by the College Board]

Factors that discourage revision

1. Tests will have to change.
 2. Changing the curriculum places a burden on teachers.
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Collecting Information: Review Committee

•December 2006

-Consisted of teachers, faculty members from Institutions of Higher Education, representatives of the North Carolina Council of Teachers of Mathematics, mathematics curriculum supervisors from LEAs, business and industry representatives, and parents.

-Contributed feedback in four areas: Rigor, Specificity, Sequence, Clarity

-Recommended that NC DPI staff make plans to revise the *North Carolina Standard Course of Study for Mathematics K-12*.

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**Collecting
Information:
NCCTM
Spring
Meetings**

- February 2007
 - NC DPI Staff conducted feedback sessions at the three spring regional meetings of the North Carolina Council of Teachers of Mathematics.
 - Feedback from these meetings will be used in reviewing the current *North Carolina Standard Course of Study for Mathematics K-12*.
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**Collecting
Information:
Expert
Steering
Committee**

- January – April 2007
- Feedback from these meetings will be used in reviewing the current *North Carolina Standard Course of Study for Mathematics K-12*.

Timeline

School Year	2006-2007	2007-2008	2008-2009	2009-2010	2010-11
Curriculum Standards	Review current standards Write or revise standards	Present to SBE (December) Disseminate to schools (Spring) Develop support materials	Transition Year	Implementation Year	
Textbooks/ Curriculum Materials	Review textbook criteria	Textbook Call (Spring 2008) Textbook Review (Summer 2008)	Textbook selection by schools	New textbooks in schools	
Professional Development		Develop professional development materials and dissemination plan	Leadership Institutes On-line professional development modules	On-going professional development	
EOG Pre 3 through 8 Mathematics Assessments	Current Edition (3 rd Edition) (2 nd Year)	Current Edition (3 rd Edition) Begin Item Development	Current Edition (3 rd Edition) Field Test Items (Embedded)	Current Edition (3 rd Edition) Field Test Items (Embedded)	New 4 th Edition New Standards
EOC Algebra I, Geometry, Algebra II	Current Edition (1 st Year)	TBD	TBD	TBD	TBD