

OFFICE OF INSTRUCTIONAL ENHANCEMENT AND INTERNAL OPERATIONS
Summary of State Board of Education Agenda Items
January 16-17, 2014

OFFICE OF CURRICULUM AND INSTRUCTION

19. Approval to begin the Administrative Procedures Act process: To establish the 2014 Mississippi College- and Career-Readiness Standards for Mathematics

Executive Summary

In an effort to closely align instruction for students who are progressing toward postsecondary study and the workforce, the *2014 Mississippi College- and Career-Readiness Standards for Mathematics* include grade- and course-specific standards for K-12 mathematics.

The primary purpose of this document is to provide a basis for curriculum development for K-12 mathematics teachers, outlining what students should know and be able to do by the end of each grade level and course. Courses for grades K-12 are based on the *Common Core State Standards for Mathematics* and *Appendix A: Designing High School Mathematics Courses Based on the Common Core State Standards*. These courses also include the *PARCC Model Content Frameworks*.

Calculus is included as a Mississippi-specific mathematics course.

New course titles are included in the list below.

- CCSS Compacted Grade 7 Mathematics
- CCSS Compacted Grade 8 Mathematics (Traditional)
- CCSS Compacted Grade 8 Mathematics (Integrated)
- CCSS Integrated Mathematics I
- CCSS Integrated Mathematics II
- CCSS Integrated Mathematics III
- Algebra III
- CCSS Advanced Mathematics Plus
- Southern Regional Education Board (SREB) Math Ready course (included as a transition to college mathematics course)

Recommendation: Approval

Back-up material attached

**Mississippi Department of Education
Mathematics Secondary Course Crosswalk**

Current 2007 Mississippi Mathematics Framework, Revised	Proposed 2014 Mississippi College- and Career- Readiness Standards for Mathematics
MS Math 8	CCSS Math Grade 8 Course includes CCSS for Math.
	CCSS Compacted Math Grade 8/Integrated Math I Course includes CCSS for Math Grade 8 and Integrated Math I.
	CCSS Compacted Math Grade 8/Algebra I (Traditional) Course includes CCSS for Math Grade 8 and Algebra I.
MS Algebra I	CCSS Algebra I or Integrated Math I * Course includes CCSS for Math.
MS Geometry	CCSS Geometry or Integrated Math II * Course includes CCSS for Math.
MS Algebra II	CCSS Algebra II or Integrated Math III * Course includes CCSS for Math.
MS Transition to Algebra	Since the course content is embedded in the CCSS for math courses, it is recommended that this standalone course no longer be offered.
Advanced Algebra	Since the course content is embedded in the CCSS for math courses, it is recommended that this standalone course no longer be offered.
Trigonometry	Since the course content is embedded in the CCSS for math courses, it is recommended that this standalone course no longer be offered.
Statistics	Since the course content is embedded in the CCSS for math courses, it is recommended that this standalone course no longer be offered.
Discrete Mathematics	Task force recommended the course for elimination due to low enrollment numbers in recent years.
Survey of Mathematical Topics	Since the course content is embedded in the CCSS for math courses, it is recommended that this standalone course no longer be offered.

**Mississippi Department of Education
Mathematics Secondary Course Crosswalk**

Current 2007 Mississippi Mathematics Framework, Revised	Proposed 2014 Mississippi College- and Career- Readiness Standards for Mathematics
Pre-Calculus	Algebra III * Task force recommended changing title and revising course to extend CCSS for Math.
Calculus	Calculus Task force recommended keeping course to extend CCSS for Math.
	CCSS Advanced Mathematics Plus * This <u>new</u> course is being added as a fourth-year CCSS for Math course.
	SREB Math Ready * This <u>new</u> course is being added to support students in the transition to college.

Notes:

As in the past, Advanced Placement courses, International Baccalaureate courses, and dual credit courses are available options that districts may use to enhance math course offerings.

The task force recommended keeping Introduction to Engineering as an elective credit in the Mississippi Science Framework.

Courses marked with an asterisk (*) are new courses in the *2014 Mississippi College- and Career-Readiness Standards for Mathematics*.

Mississippi Department of Education
2014 Mississippi College- and Career-Readiness Standards for Mathematics
Proposed Secondary Courses

Common Core State Standards (CCSS) Courses for Math Credit

- CCSS Math Grade 8
- CCSS Compacted Math Grade 8/Integrated Math I
- CCSS Compacted Math Grade 8/Algebra I (Traditional)
- CCSS Algebra I or Integrated Math I (required for graduation)
- CCSS Geometry or Integrated Math II *
- CCSS Algebra II or Integrated Math III *
- CCSS Advanced Mathematics Plus *

Mississippi-Specific Courses for Math Credit

- Algebra III *
- Calculus *

Transition to College Course for Math Credit

- SREB Math Ready *

Advanced Placement (AP) Courses for Math Credit

- AP Calculus AB *
- AP Calculus BC *
- AP Statistics *

International Baccalaureate Courses for Math Credit *

Dual Credit Courses for Math Credit *

Compensatory Math Courses for Elective Credit Only

Note: Four math credits are required for graduation, including CCSS Algebra I or CCSS Integrated Math I and at least two courses higher than CCSS Algebra I or CCSS Integrated Math I, as indicated by an asterisk (*).