

Move On When Ready UPDATES

August 29, 2016

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MOWR Updates

- MOWR students can participate for 9th-12th grade years, but not beyond
- If graduation requirements are met early during 12th grade year, they can continue participation the rest of that year
- Only degree level MOWR courses can receive the .5 weight and meet the academic rigor course categories of the HOPE/Zell Scholarship
- Biology taken again as MOWR can count as 4th science if not matched to same high school course number
- MOWR 2016-17 **Guidelines** are posted on Ga Student Finance Commission webpage-gsfc.org
- All **other MOWR documents** are located at gafutures.org

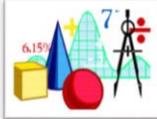
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MOWR Mathematics Program Considerations

Entry Criteria for MOWR Mathematics

Algebra II OR Advanced Algebra and MOWR Mathematics

Senate Bill 2 and MOWR Mathematics



NCAA and MOWR Mathematics

Alignment of MOWR Courses to HS Courses

Awarding Credit for MOWR Courses

MOWR Course Coding

Good afternoon everyone. I plan to discuss the topics listed here. However, please feel free to type in questions and concerns about any mathematics issues you have as we progress through this session. I am certain that others will have the same question and will benefit from your comments. My colleague Brooke Kline is with me today and will answer questions that can be answered quickly in the chat room. I will respond to any remaining questions following the informational session. For your future reference, we have provided three handouts that you can download. We will also provide Maria with this powerpoint and my scripted notes so she can send it out to you – please feel free to use any or all of the slides and/or scripted notes in your school information sessions.

1. 2008 Graduation Rule
2. 2016-2017 Mathematics Graduation Requirement Guidance
3. MOWR Mathematics FAQs

MOWR Mathematics Entry Criteria

**Readiness for College Level Courses
High School Graduation Requirements
High School Course Sequences
College Admission Requirements**



It is very important that we disseminate the message to our stakeholders that mathematics is sequential in nature and that the design of the GSE standards progression required that college and career readiness standards for Advanced Algebra/Algebra II were identified first and then mapped back to what students should master in preceding courses/grades. Our students are prepared to tackle college level courses ONLY after they master the college readiness standards associated with Advanced Algebra or Algebra II.

Remember that our graduation rule explicitly requires Algebra I or Coordinate Algebra AND Geometry or Analytic Geometry AND Algebra II or Advanced Algebra + an additional core mathematics course. Page 5 of the 2016-2017 Graduation Guidance document specifies equivalent courses in accelerated pathway options:

1. Accelerated Algebra I/Geometry A and Accelerated Geometry B/Algebra II- include the standards of Algebra I, Geometry, and Algebra II. At the present time, these are the only equivalent courses for Algebra I, Geometry, and Algebra II.
2. Accelerated Coordinate Algebra/Analytic Geometry A and Accelerated Analytic Geometry B/Advanced Algebra include the standards of Coordinate Algebra, Analytic Geometry, and Advanced Algebra. At the present time, these are the only equivalent courses for Coordinate Algebra, Analytic Geometry, and Advanced Algebra.
3. In rare occasions, students will benefit from the alternate sequence: Algebra I or Coordinate Algebra + Geometry or Analytic Geometry + Pre-Calculus OR MOWR Pre-Calculus. Pages 5 and 10 of the 2016-2017 Graduation Guidance

document offer additional information about this sequence. While Pre-Calculus is not an equivalent of Algebra II/Advanced Algebra, the Algebra II/Advanced Algebra requirement is met with an expectation of enrollment in higher level courses beyond Pre-Calculus. Pre-Calculus meets the high school graduation requirement of Algebra II/Advanced Algebra and has been approved by both TCSG and USG as a replacement for Algebra II/Advanced Algebra.

At this point, I will remind you that USG requires Algebra I or Coordinate Algebra AND Geometry or Analytic Geometry AND Algebra II or Advanced Algebra + an approved fourth course beyond Algebra II or Advanced Algebra for admission to their institutions. College Readiness Mathematics, our newest fourth course option, has been approved for USG admissions and has been added to the HOPE Rigor list. A few USG colleges will accept Foundations of Algebra as a fourth course ...but I would check with individual colleges for confirmation.

Algebra II or Advanced Algebra and MOWR Mathematics

- There are **no** MOWR course equivalents of Algebra II/Advanced Algebra.
- MOWR College Algebra is **not** an equivalent of Algebra II/Advanced Algebra
- MOWR College Algebra **is** an approved fourth mathematics course option
- Pre-Calculus or MOWR Pre-Calculus replaces Algebra II/Advanced Algebra for graduation requirements

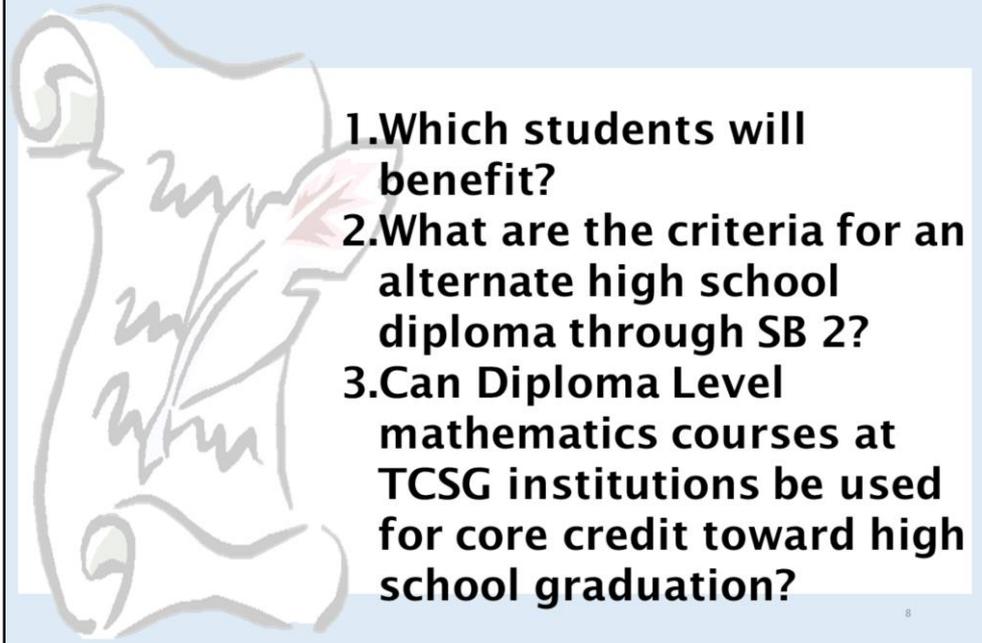


1. Completion of high school Algebra II/Advanced Algebra is the watermark of **college** readiness in mathematics and for that reason there are no MOWR equivalents. Keep in mind that students engaged in any of a number of acceleration options could be ready for MOWR mathematics courses prior to 12th grade – acceleration can include high school math in eighth grade, acceleration sequence in eighth or ninth grade, virtual school, block schedules and test-out options to name a few. It is the completion of Algebra II/Advanced Algebra and not a high school student's grade level that marks readiness for college level courses. TCSG has provided you with MOWR course sequence examples. One last point – students engaged in our accelerated sequence will complete Algebra II/Advanced Algebra in the second course.
2. Neither USG nor TCSG has approved MOWR College Algebra as an equivalent of Advanced Algebra or Algebra II. Not all of the standards associated with Algebra II/Advanced Algebra are addressed in College Algebra. Some are not addressed until Pre-Calculus.
3. MOWR College Algebra is an approved fourth course option for HS graduation and TCSG/USG admission.
4. Students who choose the alternate sequence Algebra I or Coordinate Algebra + Geometry or Analytic Geometry + Pre-Calculus OR MOWR Pre-Calculus, are talented mathematics students and are expected to move forward to appropriate college level courses such as Calculus, Statistics, or Computer Science.
5. Because MOWR policy is new, there are currently students who have taken both

MOWR College Algebra and College Pre-Calculus. The Pre-Calculus course is an acceptable replacement for Advanced Algebra or Algebra II and while College Algebra is not a recommended fourth course for students who have completed Pre-Calculus, this sequence will suffice for high school graduation and some USG post-secondary admissions. However, it is not recommended that students enroll in College Algebra after completing only Algebra I or Coordinate Algebra and Geometry or Analytic Geometry as this decision requires successful completion of Pre-Calculus.

6. We are providing you with a MOWR Mathematics FAQ document to support the information provided here.

Senate Bill 2 and MOWR Mathematics



1. Senate Bill 2 offers a yet another choice for our students. I know that you consider student interest and aspirations as you guide them to an appropriate course of study and this option is certainly appropriate for that sub-population of who continue to struggle academically in high school or are disaffected with the high school experience. However, the details of this choice must be clearly communicated with parents and students before the decision is made.

2. So what are the criteria ... A.) students must complete at least the required ninth and tenth grade high school courses: two ELA courses, two mathematics courses, two science courses, and two social studies courses, and any state required tests associated with any such courses; B.) receive a score of admission acceptable on the readiness assessment required by the postsecondary institution; and C.) **complete** either an associate degree program, technical college diploma program and all postsecondary academic education and technical education and training prerequisites for any state, national, or industry occupational certifications or licenses required to work in the field, or at least two technical college certificate of credit programs in one specific career pathway and all postsecondary academic education and technical education and training prerequisites for any state, national, or industry occupational certifications or licenses required to work in the field. NOTE that all criteria must be met prior to being awarded a high school diploma.

3. Students will need to complete Algebra I, Coordinate Algebra, or an equivalent AND Geometry, Analytic Geometry, or an equivalent before considering an alternate high school diploma through SB 2. Counselors will need to explain the outcomes required to

earn a high school diploma and will need ensure that students who will expect to continue their post-secondary study with an expectation of a bachelor's understand the requirements of that degree.

Diploma level TCSG courses can be awarded core mathematics credit, as can Foundations of Algebra and Mathematics of Finance courses, to met the fourth mathematics course requirement for graduation. NOTE that none of these courses are approved by USG as courses **beyond** Algebra II/Advanced Algebra.

NCAA and MOWR Mathematics

**2016 Division I Academic
Requirements for College-Bound
Student Athletes: 3 Years of
Mathematics (Algebra I or
higher)**



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Georgia students are required to complete 4 core credits in mathematics – specifically Algebra I/Coordinate Algebra, Geometry/Analytic Geometry, and Algebra II/Advanced Algebra – or in the case of very talented math students Pre-Calculus. Our MOWR math options meet our fourth core requirement and are therefore not relevant to NCAA eligibility.



Alignment of MOWR Courses to HS Courses

- Unique MOWR Mathematics Codes make alignment to HS courses unnecessary
- MOWR decisions will be made based on student interest, career aspirations, post-secondary plans, and post-secondary institution placement procedures
- The MOWR **approved** course directory for USG, TCSG, and private colleges can be found at Gafutures.org
- MOWR courses will meet the high school graduation **fourth** course requirement

In the past, counselors were expected to match college level courses with a high school math course taught at their school. That meant that a college level course was reported on high school transcripts according to the availability of fourth course options ...meaning that College Algebra, for example, was recorded as Pre-Calculus on one Georgia student's high school transcript and Advanced Mathematical Decision Making on another. Now transcripts will accurately report the MOWR course completed. Dianne Barker, TCSG *Secondary Education Initiatives Coordinator*, has previously provided you with examples of alignments and sequence examples – thank you, Dianne!!

Awarding Credit for MOWR Courses

- List of State-Funded K-8 Subjects and 9-12 Courses + MOWR Approved Course Directory
- SIS Course Title Deck Additions

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There have been questions about awarding MOWR credit. Counselors have been concerned that the MOWR approved courses are not listed on the list of state-funded courses. Please keep in mind that this list is limited to state-funded **K-12** courses. The **approved** MOWR courses are state-funded, but must be added to your district's Student Information System course title deck before credit can be awarded. Requests for additions to the MOWR approved course directory will need to be initiated by the college's MOWR coordinator.

MOWR Course Coding

EXAMPLES

27.0A884 Dual Enrollment Mathematics USG (MATH 1111 College Algebra)

27.0A624 Dual Enrollment Mathematics TCSG (MATH 1111 College Algebra)

27.0A144 Dual Enrollment Mathematics Young Harris (MATH 1110 Math Modeling)

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Please note that the language of the codes is similar to our high school codes, indicates that the course is a dual enrollment course via MOWR, provides the college level course title and indicates the institution – either USG, TCSG, or the specific private college. MOWR high school codes will routinely include a letter in the second digit to the right of the decimal and a 4 in the fifth digit to the right of the decimal.

Upcoming Webinars



Richard Woods,
Georgia's School Superintendent
"Educating Georgia's Future"
gadoe.org

- **Opportunities to Support Student Attendance**
September 6, 2016, 1:00 PM - [Register](#)
- **Child Abuse Prevention & Mandated Reporting Training**
September 20, 2016, 2:00 PM - [Register](#)
- **Evidence-based Gatekeeper Curriculum for Schools: Practical considerations for adoption and training**
September 23, 2016 11:00 AM - [Register](#)
- **Behavioral Health Resources for Families: Updates for GA Schools**
September 27, 2016 11:AM & 2:PM
[Register 11:00 Session](#) [Register 2:00 Session](#) **(Repeat of 11AM)**
- **Si Se Puede!! (Yes, You Can!): Building School Counselor and Latino Parent Partnerships to Promote Student Success**
September 28, 2016, 2:00 PM - [Register](#)

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We sincerely appreciate your time today.
Please let us know anytime we can assist
you.

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