

**Courses to Satisfy the Mathematics Graduation Requirement
for the Modified Standard Diploma**

Mathematics Course Title	Course Code	SOL Test
<i>Courses that will satisfy the mathematics requirement for the Modified Standard Diploma shall include content from among applications of algebra, geometry, personal finance, and statistics. Any of the following courses can be used to satisfy the mathematics content requirement.</i>		
Personal Living and Finance+	3120	None
<i>Courses at or above the level of Algebra</i>		
Algebra I, 2-yr. Sequence, Part I*	3131	None
Algebra I, 2-yr. Sequence Part II	3132	**
Algebra I	3130	**
Geometry, 2-yr. Sequence, Part I*	3144	None
Geometry, 2-yr. Sequence, Part II	3145	**
Geometry	3143	**
Algebra/Geometry, 3-yr. Sequence, Course I	3146	***
Algebra/Geometry, 3-yr. Sequence, Course II	3147	***
Algebra/Geometry, 3-yr. Sequence, Course III	3148	***
Algebra/Geometry/Algebra II, 3-yr. Sequence, Course I	3151	***
Algebra/Geometry/Algebra II, 3-yr. Sequence, Course II	3152	***
Algebra/Geometry/Algebra II, 3-yr. Sequence, Course III	3153	***
<i>Courses above the level of Algebra and Geometry</i>		
Algebra II	3135	**
Computer Mathematics	3184	None
<i>Courses above the level of Algebra II</i>		
Algebra II and Trigonometry	3137	**
Trigonometry (one semester)	3150	None
Advanced Placement Computer Science	3185	None
Probability and Statistics	3190	None
Advanced Placement Statistics	3192	None
Discrete Mathematics	3154	None
Advanced Mathematics	3160	None
Mathematical Analysis/Pre-Calculus	3162	None
Elementary Mathematics Functions	3163	None

*Courses to Satisfy the Mathematics Graduation Requirement for the Modified Standard Diploma
(Continued)*

Mathematics Course Title	Course Code	SOL Test
Advanced Placement Calculus	3177	None
Analytic Geometry	3176	None
Multivariate Calculus	3178	None

+The personal living and finance course may not be used to satisfy the mathematics requirement for the Standard or Advanced Studies Diploma. This locally developed course must be based on the *Objectives for Personal Living and Finance* approved by the Board of Education in April, 1999: <http://www.pen.k12.va.us/VDOE/Instruction/Math/persfin.pdf>

* Students may earn one mathematics credit for the Modified Standard Diploma by successfully completing this course.

** Students who are enrolled in a course that requires an end-of-course SOL test must take the test, but they do not have to pass the SOL test to satisfy the requirement for the Modified Standard Diploma.

*** Students will take the Algebra I, Geometry, and/or Algebra II SOL test(s) when they have completed the appropriate SOL content, as determined by the local school division, but they do not have to pass the test(s) to satisfy the requirement for the Modified Standard Diploma.

**Courses to Satisfy the Science Graduation Requirement
for the Modified Standard Diploma**

Science Course Title	Course Code	SOL Test
<i>Courses that will satisfy the science requirement for the Modified Standard Diploma shall include content from at least two of the following: applications of earth science, biology, chemistry, or physics.</i>		
<i>Courses at or above the level of Earth Science</i>		
Earth Science I, 2-Year Sequence, Part I*	4200	None
Earth Science I, 2-Year Sequence, Part II	4201	**
Earth Science I	4210	**
Earth Science II – Advanced Survey of Earth Science Topics	4220	***
Advanced Placement Environmental Science	4270	***
Earth Science II – Geology	4240	None
Earth Science II – Oceanography	4250	None
Earth Science II – Astronomy	4260	None
<i>Courses at or above the level of Biology</i>		
Biology I, 2-Year Sequence, Part I*	4300	None
Biology I, 2-Year Sequence, Part II	4301	**
Biology I	4310	**
Biology II – Advanced Survey of Biology Topics	4320	***
Advanced Placement Biology	4370	***
Biology II – Anatomy/Physiology	4330	None
Biology II – Ecology	4340	None
Biology II - Genetics	4350	None
<i>Courses at or above the level of Chemistry</i>		
Chemistry I, 2-Year Sequence, Part I*	4400	None
Chemistry I, 2-Year Sequence, Part II	4401	**
Chemistry I	4410	**
Advanced Placement Chemistry	4470	***
Chemistry II	4420	None
<i>Courses at or above the level of Physics</i>		
Physics I	4510	None
Advanced Placement Physics	4570	None

*Courses to Satisfy the Science Graduation Requirement for the Modified Standard Diploma
(Continued)*

Science Course Title	Course Code	SOL Test
Physics II	4520	None
Principles of Technology I*	9811	None
Principles of Technology II	9812	None
<i>Integrated Sciences - Earth Sciences/Biology/Chemistry</i>		
Integrated Science, 3-Year Sequence, Course 1	4211	+
Integrated Science, 3-Year Sequence, Course 2	4311	+
Integrated Science, 3-Year Sequence, Course 3	4411	+

* Students may earn one science credit towards the Modified Standard Diploma by successfully completing this course.

** Students who are enrolled in a course that requires an end-of-course SOL test must take the test, but they do not have to pass the SOL test to satisfy the requirement for the Modified Standard Diploma.

*** Students who have not already taken a course in this discipline where a SOL test is required will take the SOL test associated with this discipline, but they do not have to pass the test to satisfy the requirement for the Modified Standard Diploma.

+ Students will take the Earth Science, Biology, and Chemistry test(s) when they have completed the appropriate SOL content, as determined by the local school division, but they do not have to pass the test to satisfy the requirement for the Modified Standard Diploma.

**Courses to Satisfy the History and Social Science Graduation Requirement
for the Modified Standard Diploma**

History and Social Science Course Title	Course Code	SOL Test
<i>Courses that will satisfy the history and social science requirement for the Modified Standard Diploma shall include one unit of credit in U.S. and Virginia History and one unit of credit in U.S and Virginia Government.</i>		
<i>Courses at or above the level of U.S. and Virginia History</i>		
U.S. and Virginia History, 2-Year Sequence, Part I*	2361	None
U.S. and Virginia History, 2-Year Sequence, Part II	2362	**
U.S. and Virginia History	2360	**
American Civilization (must include the SOL for U.S. History)	2376	**
Advanced Placement U.S. History	2319	**
<i>Courses at or above the level of U.S. and Virginia Government</i>		
U.S. and Virginia Government	2440	None
Advanced Placement Government and Politics: United States	2445	None

* Students may earn one credit in U.S. and Virginia History for the Modified Standard Diploma by successfully completing this course. This course may be treated as a survey course of U.S. and Virginia History topics in the SOL.

** Students who are enrolled in a course that requires an end-of-course SOL test must take the test, but they do not have to pass the SOL test to satisfy the requirement for the Modified Standard Diploma.