



South Carolina High School Mathematics Course Pathways

This guidance document has been developed to assist South Carolina school districts in making decisions about modifying or developing appropriate high school mathematics course sequences that adequately and appropriately address the intent and content of the South Carolina College- and Career-Ready (SCCCR) Standards for Mathematics. The course sequences students follow in high school should be aligned with their intended career paths that will either lead directly to the workforce or further education in post-secondary institutions. Selected course sequences will provide students with the opportunity to learn all SCCCR Graduation Standards as appropriate for their intended career paths. Because Mathematics for the Technologies courses are currently phasing out of South Carolina course offerings, this guidance document does not include Mathematics for the Technologies courses.



South Carolina High School Mathematics Course Pathways

Pathway 1

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| <p style="text-align: center;">Algebra 1</p> <p><i>Students must take the state-mandated Algebra 1 End-of-Course assessment (Algebra 1 EOCEP) administered at the completion of Algebra 1.</i></p> | <p style="text-align: center;">Geometry or Algebra 2</p> | <p style="text-align: center;">Algebra 2 or Geometry</p> | <p style="text-align: center;"><i>Fourth Course Options¹</i></p> <ol style="list-style-type: none"> 1. Pre-Calculus 2. Probability and Statistics 3. AP Probability and Statistics 4. Discrete Mathematics 5. Algebra 3² 6. Dual Enrollment Courses | <p style="text-align: center;">Accelerated Pathway <i>Fifth Course Options¹</i></p> <ol style="list-style-type: none"> 1. Calculus 2. AP Calculus 3. Probability and Statistics 4. AP Probability and Statistics 5. Discrete Mathematics 6. Pre-Calculus 7. Dual Enrollment Courses |
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SCCCR Graduation Standards in Pathway 1: The 6 SCCCR Graduation Standards found in Probability and Statistics that are not also covered in Algebra 1, Geometry, or Algebra 2 (SPMJ.1, SPMJ.2, SPID.5, SPMD.4, SPMD.5, and SPMD.6) are covered in middle school. Additionally, the 1 SCCCR Graduation Standard found in Pre-Calculus (NVMQ.6) is covered in middle school. However, districts may wish to create an extension unit for Geometry for the students who follow this sequence to provide the students with an opportunity to review these particular SCCCR Graduation Standards if they do not plan to take Probability and Statistics and/or Pre-Calculus before graduation.

¹Course options may be limited by prerequisite courses. Additionally, other courses can be locally developed to address further exploration of mathematical concepts and applications in real-life situations. These courses must be approved by the South Carolina Department of Education before graduation credit can be awarded.

²Students should have an Algebra 2 credit before taking Algebra 3. Algebra 3 should be designed for students who have taken Algebra 2 but do not have a strong enough background to go directly into Pre-Calculus. Algebra 3 should be a bridge between Algebra 2 and Pre-Calculus; Algebra 3 should include some of the most challenging topics from Algebra 2 and some of the introductory topics from Pre-Calculus, but Algebra 3 should also have additional content to validate the graduation credit students who successfully complete Algebra 3 receive.



South Carolina High School Mathematics Course Pathways

Pathway 2

Students must not enroll in Foundations in Algebra prior to high school.

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| Foundations in Algebra¹ | Intermediate Algebra | Geometry | <i>Fourth Course Options²</i> |
| <i>Upon completion of this two-course sequence, students must take the state-mandated Algebra 1 End-of-Course assessment (Algebra 1 EOCEP) administered at the completion of the second course, Intermediate Algebra.</i> | | | <ol style="list-style-type: none"> 1. Algebra 2 2. Probability and Statistics 3. Discrete Mathematics 4. Dual Enrollment Courses |

SCCCR Graduation Standards in Pathway 2: The 1 SCCCR Graduation Standard found in Pre-Calculus (NVMQ.6) is covered in middle school. However, districts may wish to create an extension unit for Geometry for the students who follow this sequence to provide the students with an opportunity to review this particular SCCCR Graduation Standard if they do not plan to take Pre-Calculus before graduation.

¹Students who successfully complete Foundations in Algebra should subsequently enroll in Intermediate Algebra. Due to the significant duplication of content in Algebra 1 from Foundations in Algebra, students must not enroll in Algebra 1 after successfully completing Foundations in Algebra.

²Course options may be limited by prerequisite courses. Additionally, other courses can be locally developed to address further exploration of mathematical concepts and applications in real-life situations. These courses must be approved by the South Carolina Department of Education before graduation credit can be awarded.