

Precalculus Curriculum Map

HSCE CODE	Expectation (Match the HSCE Code to its matching expectation in the MMC for Pre-Calculus)	District Curriculum Lessons
P1: Functions		
P1.1		1.2
P1.2		1.4;1.6;2.1
P1.3		1.4
P1.4		1.5
P1.5		1.5
P1.6		1.2;1.3
P1.7		1.2
P1.8		1.3;2.1
P2: Exponential & Logarithmic Functions		
P2.1		3.3
P2.2		3.3
P2.3		3.1
P2.4		3.5
P2.5		3.1;3.2;3.5;3.6
P3: Quadratic Functions		
P3.1		0.5
P3.2		2.1
P3.3		2.1
P4: Polynomial Functions		
P4.1		2.8
P4.2		2.3;2.4
P4.3		2.4
P5: Rational Functions and Difference Quotients		
P.1		2.6;2.7;2.8
P5.2		2.6
P5.3		
P6: Trigonometric Functions		
P6.1		4.1;4.3
P6.2		4.4
P6.3		4.7
P6.4		5.1;5.3;5.4

P6.5		4.2;4.8;5.5;5.6
P6.6		5.2;5.3;5.4
P6.7		1.7;4.4
P7:Vectors, Matrices, and Systems of Equations		
P7.1		6.1;6.2
P7.2		6.2
P7.3		7.2
P7.4		Supplemented
P7.5		7.2
P7.6		7.2
P7.7		7.3
P7.8		7.5
P8:Sequences, Series, and Mathematical Logic		
P8.1		9.1;9.5
P8.2		9.4
P8.3		9.5
P8.4		9.5
P8.5		9.6
P8.6		9.2
P9:Polar Coordinates, Parameterizations, and Conic Sections		
P9.1		6.4;8.5
P9.2		6.6
P9.3		6.3
P9.4		6.3
P9.5		6.5
P9.6		6.3
P9.7		8.1;8.2;8.3
P9.8		8.1;8.2;8.3
P9.9		8.5
P9.10		8.1;8.2;8.3;8.5

INSTRUCTIONAL MATERIALS

Students will complete daily Warm-ups that emphasize standardized test question format. Students will work through examples guided by the teacher.

After completing examples, students will have time to work on the assignment and ask questions. The next day the teacher will recap the content by reviewing the previous day's assignment and working through requested problems.

↓

The student understands and mastery of content will be assessed through Vocabulary Quizzes, Homework Quizzes, and a Unit Test or alternative test. (Same for all units)

Approximate Schedule of Curriculum

First Marking Period

- Week One: ReCap Algebra II Skills

Unit #1 Functions and Graphs

- Lessons 1-2, 1-3, 1-4, 1-5, 1-6, 1-7

- 2 HW/content Quizzes

- Unit Test

Unit #2 Polynomial, Power, and Rational Functions

- Lessons 2-1, 2-2, 2-3, 2-4, 2-5, 2-6, 2-7, 2-8

- 2-3 HW/content Quizzes

- Unit Test

Second Marking Period

- Finish up Unit #2

Unit #3 Exponential, Logistic, and Logarithmic Functions

- Lessons 3-1, 3-2, 3-3, 3-4, 3-5, 3-6

- 2 HW/Content Quizzes

- Unit Test

Unit #4 Trigonometric Functions

- Lessons 4-1, 4-2

- Unit Circle Activity

Third Marking Period

Continue Unit #4

- Lessons 4-3, 4-4, 4-7, 4-8

- 2 HW/content Quizzes

- Unit Test

Semester I Project

Unit #5 Analytic Trigonometry

- Lessons 5-1, 5-2, 5-3, 5-4, 5-5, 5-6
- 2 HW/Content Quizzes
- Unit Test

Semester Exam Review

Semester I Exam (part one open book/take home, part two in class w/ calculator only)

Fourth Marking Period

Unit #6 Vectors, Systems and Matrices

- Lessons 6-1, 6-2, 7-2, 7-3, 7-5, Supplemented materials for HSCE P7.4
- 2 HW/Content Quizzes
- Unit Test

Unit #7 Discrete Mathematics

- Lessons 9-1, 9-2, 9-4, 9-5, 9-6
- 2 HW/Content Quizzes
- Unit Test

Fifth Marking Period

ACT/MME Prep and Testing

Unit #8 Applications of Trigonometry

- Lessons 6-3, 6-4, 6-5, 6-6
- HW/Content Quiz
- Unit Test

Unit #9 Analytic Geometry in Two and Three Dimensions

- Lessons 8-1, 8-2, 8-3, 8-5, 8-6
- 2 HW/Content Quizzes
- Unit Test

Sixth Marking Period

Semester II Project

Unit #10 An Introduction to Calculus

- Lessons 10.1, 10.2, 10.3, 10.4
- HW/Content Quiz
- Unit Test

Semester II Exam Prep

Semester II Exam (Part one Openbk/take home, Part two In-class w/calculator only)