

Oklahoma Secondary Mathematics Course Code Changes

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A number of changes to the Oklahoma State Department of Education course codes for mathematics have been made since the 2017-2018 academic year. These changes promote improved mathematics advising for all Oklahoma high school students. Revised course codes are provided below along with notes in an effort to reduce confusion around, and duplication within, course codes. Decisions about additions, deletions, and combinations are informed by the following four factors:

Factor 1 - Alignment to Current Standards

Factor 2 - Alignment to Best Practices Regarding Remediation and Support Structures

Factor 3 - Alignment to Advanced Mathematics Learning Opportunities

Factor 4 - Alignment to Best Practices Promoting Post-Secondary Readiness

To communicate the changes, the following table provides a summary of the current course codes in the three categories (Eligible for All Diploma Pathways, Eligible for Core Diploma Pathway if Taught by Certified Math Teacher, and Eligible for Elective Credit).

Table 1: Mathematics - Eligible for All Diploma Pathways			
Course Code/Name Prior to 17-18 School Year	Modifications (Factor)	Current Course Code/Name	Notes
4411 Algebra 1	None	4411 Algebra 1	See 2016 Oklahoma Academics Standards for Mathematics ¹ Students not successfully passing Pre-Algebra should also enroll in 4405 Math Remediation ³
4412 Algebra 2	None	4412 Algebra 2	See 2016 Oklahoma Academics Standards for Mathematics ¹
4413 Algebra 3	None	4413 Algebra 3	Pre-Requisites: Algebra 2 Courses in this classification should be distinct from Algebra 2 and Trig/Pre-Calculus. Utilize 4611 Pre-Calculus for College Algebra concurrent enrollment.
4420 Algebra Matrix	Removed (#4)	-	-
4421 Contextual Algebra	Removed (#2)	-	-
4432 Algebra 1 A (1/2 credit)	None	4432 Algebra 1 A (1/2 credit)	
4433 Algebra 1 B (1/2 credit)	None	4433 Algebra 1 B (1/2 credit)	
4510 Analytics	Removed (#4)	-	-
4520 Combined Geometry	Combined (#1 and #3)	4520 Geometry	See 2016 Oklahoma Academics Standards for Mathematics ¹
4521 Contextual Geometry			
4530 Plane Geometry			
4540 Solid Geometry			

Table 1: Mathematics - Eligible for All Diploma Pathways

Course Code/Name Prior to 17-18 School Year	Modifications (Factor)	Current Course Code/Name	Notes
4750 Trigonometry	Revised (#4)	4750 Trigonometry (1/2 unit)	Pre-Requisites: Algebra 2 If offering as part of full year course, use 4611 Pre-Calculus
4611 Pre-Calculus	Combined (#3 and #4)	4611 Pre-Calculus	Pre-Requisites: Algebra 2
4720 Mathematics - Analysis			See competencies approved by the Oklahoma State Department of Education ²
4612 Calculus	None	4612 Calculus	See NCTM/MAA Position Statement on Calculus ⁴
4615 AP Calculus AB	None	4615 AP Calculus AB	See College Board AP Calculus AB Home Page ⁵
4616 AP Calculus BC	None	4616 AP Calculus BC	See College Board AP Calculus BC Home Page ⁵
-	Added (#3)	4830 Advanced Studies in Mathematics 1	Pre-requisites: Calculus 1, AP Calculus AB, or AP Calculus BC
-	Added (#3)	4831 Advanced Studies in Mathematics 2	Pre-requisites: Calculus 1, AP Calculus AB, or AP Calculus BC
4740 Statistics & Probability	Relocated (#3 and #4)	4740 Statistics & Probability	Pre-Requisites: Algebra 2 See competencies approved by the Oklahoma Regents for Higher Education ²
4760 AP Statistics	None	4760 AP Statistics	See College Board AP Statistics Home Page ⁵
4820 IB Math	Revised (#3)	4820 IB Mathematical Studies Standard Level	Developed to align to current International Baccalaureate courses
-	Added (#3)	4821 IB Mathematics Standard Level	
-	Added (#3)	4822 IB Mathematics Higher Level	
-	Added (#3)	4823 IB Further Mathematics Higher Level	

Table 2: Courses Eligible for Core Diploma Pathway and Table 3: Courses Eligible for Elective Credit begin on next page.

Table 2: Mathematics - Core Diploma Pathway Courses

Course Code/Name Prior to 17-18 School Year	Modifications (Factor)	Current Course Code/Name	Notes
2510 Advanced Programming (For Math Credit)	None	2510 Advanced Programming (For Math Credit)	See 2018 Oklahoma Academic Standards for Computer Science ¹
4418 Intermediate Algebra	None	4418 Intermediate Algebra	See competencies approved by the Oklahoma State Department of Education ²
4740 Statistics & Probability	Moved to College Prep (#3 and #4)	-	See Table 1
4770 Mathematics Of Finance (Not Personal Financial Literacy)	None	4770 Mathematics Of Finance (Not Personal Financial Literacy)	See competencies approved by the Oklahoma State Department of Education ²
4780 Computer Science 1	None	4780 Computer Science 1	See 2018 Oklahoma Academic Standards for Computer Science ¹
4780 Computer Science 2	None	4780 Computer Science 2	See 2018 Oklahoma Academic Standards for Computer Science ¹

Table 3: Mathematics - Electives

Course Code/Name Prior to 17-18 School Year	Modifications (Factor)	Current Course Code/Name	Notes
4404 Title I Math	Combined (2019-2020)	4405 Math Remediation	Ideal code for companion course for Algebra 1 ³
4405 Math Remediation			
4431 Pre Algebra (Elective Credit Only)	None	4431 Pre Algebra (Elective Credit Only)	This course should only be available for students who failed 8th grade Pre-Algebra. Otherwise, see 4405 Math Remediation and related notes
-	Added (#2 and #4)	4550 College Career Math Ready	Pre-Requisite: Algebra 2 Appropriate for students scoring 13-18 on math component of the ACT ⁶
4620 Consumer Mathematics (For Elective Credit Only)	None	4620 Consumer Mathematics (For Elective Credit Only)	Schools offering courses in these classifications may look into Algebra 1 intensification strategies ³ and other intervention approaches at the middle grades to limit the number of students needing these types of courses.
4630 General Mathematics (For Elective Credit Only)	None	4630 General Mathematics (For Elective Credit Only)	
4640 High School Arithmetic (For Elective Credit Only)	None	4640 High School Arithmetic (For Elective Credit Only)	
4811 Applied Math I (For Elective Credit Only)	None	4811 Applied Math I (For Elective Credit Only)	
4812 Applied Math II (For Elective Credit Only)	None	4812 Applied Math II (For Elective Credit Only)	

Footnotes

1. Oklahoma Academic Standards for Mathematics (2016) and Computer Science (2018)
<http://sde.ok.gov/oklahoma-academic-standards>

2. Precalculus/Trigonometry (4611), Intermediate Algebra (4418), Statistics and Probability (4720), and Math of Finance (4770) Competencies <https://sde.ok.gov/standards-and-assessments-oklahoma-mathematics>
3. View compiled research and resources for Algebra 1 intensification at <http://okmathteachers.com/intensification>.
4. Joint Position Statement of the Mathematical Association of America and the National Council of Teachers of Mathematics on Calculus in High School <http://www.nctm.org/Standards-and-Positions/Position-Statements/Calculus>.
5. AP Course Home Pages http://apcentral.collegeboard.com/apc/public/courses/teachers_corner/index.html.
6. College Career Math Ready (4550) is a course offered thanks to a partnership among Oklahoma State Regents for Higher Education, Oklahoma State Department of Education, Oklahoma Department of Career and Technology Education, and the Southern Regional Education Board. Learn more at <http://sde.ok.gov/ccmr>.