Code	Name	STI Short Name	Course Description	Low Grade	High Grade	Credit	Course Type	Begin Service Year
210045	Grade 7 Accelerated Mathematics	Acc Math 7	2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. The Grade 7 Accelerated Mathematics course has been carefully aligned and designed for middle school students who show particular motivation and interest in mathematics. Grade 7 Accelerated Mathematics includes standards from Grade 7 Mathematics and incorporates standards from Grade 8 Mathematics and Algebra I with Probability. Students who complete this class are eligible to enroll in Grade 8 Accelerated Mathematics or Grade 8 Mathematics. Students who complete both Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics are considered to have met the requirements of and may opt to omit the Algebra I with Probability course in their high school mathematics progression to enroll in additional mathematics courses after completing the required Algebra II with Statistics course.	07	07	None	(40) Core Secondary	2020-2021
			2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. GThe Grade 8 Accelerated course has been carefully aligned and designed for middle school students who have completed the Grade 7 Accelerated course and show particular motivation and interest in mathematics. Grade 8 Accelerated contains four content areas: Number Systems and Operations; Algebra and Functions; Data Analysis, Statistics, and Probability; and Geometry and Measurement. The algebra focus is on quadratic relationships. Students who successfully complete this course will be prepared to enter Geometry with Data Analysis in Grade 9 and then accelerate directly into Algebra II with Statistics in Grade 10, thus providing them with an opportunity to take additional, specialized mathematics coursework, such as AP Calculus or AP				(40) Core	
210046	Grade 8 Accelerated Mathematics	Acc Math 8	Statistics, in Grades 11 and 12.	08	08	None	Secondary	2020-2021

								Begin
				Low	High		Course	Service
Code	Name	STI Short Name	e Course Description	Grade	Grade	Credit	Туре	Year
210051	Geometry with Data Analysis	Geom/DataAn	2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Geometry with Data Analysis is the first of three required courses in high school mathematics. In Geometry with Data Analysis, students incorporate knowledge and skills in Geometry and Measurement, Algebra and Functions, and Data Analysis, Statistics, and Probability, leading to a deeper understanding of fundamental relationships within the discipline and building a solid foundation for further study. The prerequisite for Geometry with Data Analysis is either Grade 8 Mathematics or Grade 8 Accelerated Mathematics. For students who opt to accelerate their mathematical pathways in the 9th grade, Geometry with Data Analysis may also be taken concurrently with Algebra I with Probability.	09	12	Full	(40) Core Secondary	2020-2021
210052	Honors Geometry with Data Analysis	HGeom/DatAn	2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Honors Geometry with Data Analysis is the first of three required courses in high school mathematics. In Honors Geometry with Data Analysis, students incorporate knowledge and skills in Geometry and Measurement, Algebra and Functions, and Data Analysis, Statistics, and Probability, leading to a deeper understanding of fundamental relationships within the discipline and building a solid foundation for further study. The prerequisite for Honors Geometry with Data Analysis is either Grade 8 Mathematics or Grade 8 Accelerated Mathematics. For students who opt to accelerate their mathematical pathways in the 9th grade, Honors Geometry with Data Analysis may also be taken concurrently with Algebra I with Probability.	09	12	Full	(40) Core Secondary	2020-2021
210053	Advanced Geometry with Data Analysis	AdvGeom/Dat	OPTIONAL. Advanced Geometry with Data Analysis is the first of three required courses in high school mathematics. In Advanced Geometry with Data Analysis, students incorporate knowledge and skills in Geometry and Measurement, Algebra and Functions, and Data Analysis, Statistics, and Probability, leading to a deeper understanding of fundamental relationships within the discipline and building a solid foundation for further study. The prerequisite for Advanced Geometry with Data Analysis is either Grade 8 Mathematics or Grade 8 Accelerated Mathematics. For students who opt to accelerate their mathematical pathways in the 9th grade, Advanced Geometry with Data Analysis may also be taken concurrently with Algebra I with Probability.	09	12	Full	(40) Core Secondary	2020-2021
210033	Auvanceu Geometry with Data Analysis	Auv Geom/Dat	r iobability.	07	12	гuп	Secondary	2020-202

Name			Low	High		Course	Service
Name							
	SII Snort Name	Course Description	Grade	Grade	Credit	Туре	Year
Algebra I with Probability	Alg I/Prob	2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Algebra I with Probability builds upon algebraic concepts studied in Grade 7 and Grade 8 Mathematics. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of mathematics. Algebra I with Probability is the second of three courses required for all students. Students may enroll in this course after completing Geometry with Data Analysis in Grade 9 or by completing both Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics. Students who wish to accelerate their mathematics pathways in high school may also elect to enroll in Algebra I with Probability concurrently with Geometry with Data Analysis in the 9th grade.	09	12	Full	(40) Core Secondary	2020-2021
Honors Algebra I with Probability	HonAlgI/Prob	2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Honors Algebra I with Probability builds upon algebraic concepts studied in Grade 7 and Grade 8 Mathematics. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of mathematics. Honors Algebra I with Probability is the second of three courses required for all students. Students may enroll in this course after completing Geometry with Data Analysis in Grade 9 or by completing both Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics. Students who wish to accelerate their mathematics pathways in high school may also elect to enroll in Honors Algebra I with Probability concurrently with Geometry with Data Analysis in the 9th grade.	09	12	Full	(40) Core Secondary	2020-2021
Advanced Algebra I with Probability	AdvAløI/Prb	2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Advanced Algebra I with Probability builds upon algebraic concepts studied in Grade 7 and Grade 8 Mathematics. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of mathematics. Advanced Algebra I with Probability is the second of three courses required for all students. Students may enroll in this course after completing Geometry with Data Analysis in Grade 9 or by completing both Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics. Students who wish to accelerate their mathematics pathways in high school may also elect to enroll in Advanced Algebra I with Probability concurrently with Geometry with Data Analysis in the 9th grade	09	12	Full	(40) Core Secondary	2020-2021
	Algebra I with Probability Honors Algebra I with Probability Advanced Algebra I with Probability	Algebra I with Probability Alg I/Prob Honors Algebra I with Probability HonAlgI/Prob	Algebra I with ProbabilityAlg I/Prob2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Algebra I with Probability builds upon algebraic concepts studied in Grade 7 and Grade 8 Mathematics. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of mathematics. Students may enroll in this course after completing Geometry with Data Analysis in Grade 9 or by completing both Grade 7 Accelerated Mathematics. Students may enroll in this school may also elect to enroll in Algebra I with Probability bound set on the pace of the courses required for all students. Students may with geometry with Data Analysis in 6 9th grade.Algebra I with ProbabilityAlg I/Prob2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Honors Algebra I with Probability builds upon algebraic concepts studied in Grade 7 and Grade 8 Mathematics. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of mathematics. Honors Algebra I with Probability is the second of three courses required for all students. Students may enroll in this course after completing Geometry with Data Analysis in Grade 9 or by completing both Grade 7 Accelerated Mathematics. In provides students with the necessary knowledge of algebra I with Probability concurrently with Geometry with Data Analysis in Grade 9 or by completing both Grade 7 Accelerated Mathematics. Students may enroll in this course after completing Geometry with Data Analysis in Grade 9 or by completing both Grade 7 Accelerated Mathematics. Students may enroll in this course after completing Geometry with Data Analysis in Grade 9 or by completing both Grade 7 and Grade 8 Mathematics. It provides students with the necessary knowledge of algebra and probability for use in everyday life an	2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Algebra I with Probability builds upon algebraic concepts studied in Grade 7 and Grade 8 Mathematics. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of mathematics. Algebra I with Probability is the second of three courses required for all students. Sudents may enroll in this course after completing Geometry with Data Analysis in Grade 9 or by completing both Grade 7 Accelerated Mathematics. Algebra I with Probability is the second of three courses required for all students. Sudents may enroll in this course after completing Geometry with Data Analysis in Grade 9 or by completing both Grade 7 Accelerated Mathematics. Buthways in high school may also elect to enroll in Algebra I with Probability oncurrently with Geometry with Data Analysis in the 9th grade.09Algebra I with ProbabilityAlg I/Prob2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Honors Algebra I with Probability builds upon algebraic concepts studied in Grade 7 and Grade 8 Mathematics. It provides students with the necessary knowledge of algebra and probability of use in everyday life and in the subsequent study of mathematics. Mores Algebra I with Probability on algebraic concepts with Grade 7 Accelerated Mathematics. Border 8 Accelerated Mathematics. Students who wish to accelerate their mathematics pathways in high school may also elect to enroll in Horors Algebra I with Probability concurrently with Geometry with Data Analysis in Grade 9 or by completing both Grade 7 Accelerated Mathematics. Browdates and Grade 8 Accelerated Mathematics. Mithematics and Grade 8 Accelerated Mathematics. Algebra I with Probability concurrently with Geometry with Data Analysis in Students with the necessary knowledge of algebra and probability for use in	2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Algebra 1 with Probability builds upon algebraic concepts studied in Grade 7 and Grade 8 Mathematics. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of maltematics. Algebra 1 with Probability is execond of three courses required for all students. Students may enroll in this course after completing Geometry with Data Analysis in Grade 8 Accelerated Mathematics. B provides students with a processing and also elect to enroll in Algebra 1 with Probability to ruse in everyday life and in the subsequent study of maltematics. Students may enroll in this course after completing Geometry with Data Analysis in Grade 7 and Grade 8 Accelerated Mathematics and Grade 8 Mathematics and Grade 8 Mathematics and Grade 8 Mathematics and Grade 8 Accelerated with Probability builds upon algebraic concepts studied in Grade 7 and Grade 8 Mathematics and Grade 8 Accelerated Mathematics and Grade 8 Mathematics and Grade 8 Accelerated M	Algebra I with Probability2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTION AL. Algebra I with Probability builds upon algebraic concepts studied in Grade 7 and Grade 8 Muthematics. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of maltematics. Algebra I with Probability is the second of three courses required for all students. Students may enroll in this course after completing Geometry with Data Analysis in Grade 9 or by completing both Grade 7 Accelerated Muthematics. Students who wish to accelerate their mathematics pathways in high school may also clect to enroll in Algebra I with Probability oncurrently with Geometry with Data Analysis in the 9th probability for use in everyday life and in the subsequent study of maltematics. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of maltematics. It provides students with the necessary knowledge of algebra and probability on use in everyday life and in the subsequent study of maltematics. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of maltematics. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of maltematics. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of maltematics. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of maltematics. It provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of maltematics. It provides students with the nec	Algebra I with Probability2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Algebra I with Probability builds upon algebraic concepts studied in Grade 7 and Grade 8 Mathematics. It provides students with the accessary knowledge of algebra and probability for use in everyday life and in the subsequent study of mathematics. Algebra I with Probability is the second of three courses required for all students. Students may enroll in this course after completing Geometry with Data Analysis in Grade 9 or by completing both Grade 7 Accelerated Mathematics. Students who wish to accelerate their mathematics pathways in high school may also elect to enroll in Algebra I with Probability is the second of three courses required for all students. Students may enroll in this course after completing Geometry with Data Analysis in Grade 9 or by completing both Grade 7. Accelerated Mathematics. I provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of mathematics. I provides students with the necessary knowledge of algebra and probability is the subsequent study of and frank 8 Mathematics. I provides students with the necessary knowledge of algebra and probability for use in everyday life and in the subsequent study of mathematics. Students may enroll in this course after completing Geometry with Data Analysis in Grade 9 or by completing both Grade 7. Accelerated Mathematics. Incons Algebra I with Probability to the second of three courses required for all students. Students may enroll in this course after completing Geometry with Data Analysis in Grade 9 or by completing both Grade 7. Accelerated Mathematics. Incons Algebra I with Probability to the second of three courses required for all students. Students may enroll in this course after completing Geometry with Data Analysis in Grade 9 or by course after completing Geometry w

			Low	High		Course	Begin Service
Name	STI Short Name	Course Description	Grade	Grade	Credit	Туре	Year
Algebra II with Statistics	Alg II/Stat	2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Algebra II with Statistics builds on the students' experiences in previous mathematics in Geometry with Data Analysis and Algebra I with Probability. It is the third of three required courses, and it is to be taken following the successful completion of Geometry with Data Analysis and either Algebra I with Probability or the combination of the Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics course sequence. It is the culmination of the three years of required mathematics content and sets the stage for continued study of topics specific to the student's interests and plans beyond high school. Algebra II with Statistics is the prerequisite for Applications of Finite Mathematics, Mathematical Modeling, Precalculus, and all other approved ALSDE mathematics classes designed for completion of students' fourth mathematics credit.	09	12	Full	(40) Core Secondary	2020-2021
		2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Honors Algebra II with Statistics builds on the students' experiences in previous mathematics in Geometry with Data Analysis and Algebra I with Probability. It is the third of three required courses, and it is to be taken following the successful completion of Geometry with Data Analysis and either Algebra I with Probability or the combination of the Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics course sequence. It is the culmination of the three years of required mathematics content and sets the stage for continued study of topics specific to the student's interests and plans beyond high school. Algebra II with Statistics courses are the prerequisite for Applications of Finite Mathematics, Mathematical Modeling, Precalculus, and all other approved ALSDE mathematics classes designed for completion of students'	00	12		(40) Core	2020 2021
	Algebra II with Statistics	Name STI Short Name Algebra II with Statistics Alg II/Stat	NameSTI Short NameCourse Description2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Algebra II with Statistics builds on the students' experiences in previous mathematics in Geometry with Data Analysis and Algebra I with Probability. It is the third of three required courses, and it is to be taken following the successful completion of Geometry with Data Analysis and either Algebra I with Probability or the combination of the Grade 7 Accelerated Mathematics on Geometry with Data Analysis and either Algebra I with Probability or the combination of the Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics course sequence. It is the culmination of the three years of required mathematics constates the stage for continued study of topics specific to the student's interests and plans beyond high school. Algebra II with StatisticsAlg II/StatAlgebra II with StatisticsAlg II/Stat2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Honors Algebra II with Statistics builds on the students' fourth mathematics credit.Algebra II with StatisticsAlg II/Stat2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Honors Algebra II with Statistics builds on the students' experiences in previous mathematics in Geometry with Data Analysis and either Algebra II with Probability. It is the third of three required courses, and it is to be taken following the successful completion of Geometry with Data Analysis and either Algebra II with Probability. It is the third of three required courses sequence. It is the culmination of the Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics content and sets the stage for continued study of topics specific to the student's interests and plans beyond high school. Algebra II with Probability or the combination of the Grade 7 Acceler	NameSTI Short NameCourse DescriptionLow Grade2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Algebra II with Statistics builds on the students' experiences in previous mathematics in Geometry with Data Analysis and Algebra I with Probability. It is the third of three required courses, and it is to be taken following the successful completion of Geometry with Data Analysis and either Algebra I with Probability. It is the third of three required courses, and it is to be taken following the successful completion of Geometry with Data Analysis and either Algebra I with Probability. It is the third of three required courses, and it is to be taken following three years of required mathematics course sequence. It is the culmination of the 	NameSTI Short NameCourse DescriptionLow GradeHigh Grade2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Algebra II with Statistics builds on the students' experiences in previous mathematics in Geometry with Data Analysis and Algebra I with Probability. It is the third of three required courses, and it is to be taken following the successful completion of Geometry with Data Analysis and either Algebra I with Probability or the combination of the Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics course sequence. It is the culmination of the drade 8 Accelerated Mathematics and Grade 8 Accelerated Mathematics, and list booth Algebra II with Statistics is the preculsuite of Applications of Finite Mathematics, Mathematical Modeling, Precalculus, and all other approved ALSDE mathematics classes designed for completion of students' couption of students' fourth Algebra II with Statistics is the precalculus, and all other approved ALSDE mathematics classes designed for completion of Geometry with Data Analysis and Algebra II with Statistics is the precalculus, and all other approved ALSDE mathematics in Geometry with Data Analysis and Algebra II with Probability. It is the third of three required courses, and it is to be taken following the successful completion of Geometry with Data Analysis and Algebra II with Probability or the combination of the Grade 7 Accelerated Mathematics in Geometry with Data Analysis and Algebra II with Probability. It is the third of three required courses, and it is to be taken following the successful completion of Geometry with Data Analysis and Algebra II with Probability or the combination of the Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics course sequence. It is the culmination of the three years of required mathematics on the student's in the set defined f	NameSTI Short NameCourse DescriptionLow GradeHigh GradeCredit2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Algebra II with Statistics builds on the students' experiences in previous mathematics in Geometry with Data Analysis and Algebra I with Probability. It is the third of three required courses, and it is to be taken following the successful completion of Geometry with Data Analysis and Algebra I with Probability or the combination of the Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics course sequence. It is the culmination of the three years of required mathematics course sequence. It is the culmination of the three years of required mathematics course sequence. It is the culmination of the three years of required mathematics course sequence. It is the culmination of the three years of required mathematics course sequence. It is the culmination of funct Mathematics. Mathematical Modeling, Precalculus, and all other approved ALSDE mathematics classes designed for completion of students' fourth mathematics credit.0912FullAlgebra II with StatisticsAlg IJ/Stat2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Honors Algebra II with Statistics builds on the students' experiences in previous mathematics in Geometry with Data Analysis and Algebra II with Probability or the combination of function of students' experiences in previous mathematics course sequence. It is the tother analysis and Algebra II with Statistics builds on the students' experiences in previous mathematics in Geometry with Data Analysis and acither Algebra II with Probability or the combination of the Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics courses sequence. It is the tother and plans beyond high school. Algebra II with Statistics courses	NameSTI Short NameCourse DescriptionLow GradeHigh GradeCourse CreditCourse Type2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL Algebra II with Stutistics builds on the students' experiences in previous mathematics in Geometry with Data Analysis and Algebra 1 with Probability. It is the third of three required courses, and it is to be taken following the successful completion of Geometry with Data Analysis and either Algebra 1 with Probability or the combination of the Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics course sequence. It is the culmination of the three cycurs of required mathematics course sequence. It is the culmination of the three cycurs of required mathematics course sequence. It is the culmination of the three cycurs of required mathematics course sequence. It is the culmination of the three cycurs of required mathematics course sequence. It is the culmination of the three cycurs of required mathematics course sequence. It is the culmination of the three cycurs of required mathematics course sequence. It is the culmination of the three cycurs of required mathematics course sequence. It is the culmination of the three cycurs of required mathematics course sequence. It is the culmination of the three cycurs of required mathematics course sequence. It is the culmination of the three cycurs of required mathematics of the student's interests and plans beyond high school. Algebra II with Statistics is the prevenguistic for Applications of Finite Mathematics. Mathematics Mathematics Mathematics Mathematics OPTIONAL. Honors Algebra II with Statistics builds on the students' cyceriences in previous mathematics in Geometry with Data Analysis and algebra II with Probability. It is the third of three required ocurses, and it is to be taken following the successful completion of Geometry

				Low	High		Course	Begin Service
Code	Name	STI Short Name	Course Description	Grade	Grade	Credit	Туре	Year
210063	Advanced Algebra II with Statistics	AdvAlgII/Sta	2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Advanced Algebra II with Statistics builds on the students' experiences in previous mathematics in Geometry with Data Analysis and Algebra I with Probability. It is the third of three required courses, and it is to be taken following the successful completion of Geometry with Data Analysis and either Algebra I with Probability or the combination of the Grade 7 Accelerated Mathematics and Grade 8 Accelerated Mathematics course sequence. It is the culmination of the three years of required mathematics content and sets the stage for continued study of topics specific to the student's interests and plans beyond high school. Algebra II with Statistics courses are the prerequisite for Applications of Finite Mathematics, Mathematical Modeling, Precalculus, and all other approved ALSDE mathematics classes designed for completion of students' fourth mathematics credit.	09	12	Full	(40) Core Secondary	2020-2021
210066	Elactive Leb Course Meth	MathElaoI ab	2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. School systems should provide instructional support (labs or intervention periods) for students in Geometry with Data Analysis, Algebra I with Probability, and Algebra II with Statistics. Student assignment to this class period and the length of this class period are at the LEA's discretion. Credit for this class period would count as elective credit, not mathematics credit.	00	12	E-11	(50) Elective	2020 2021
210000		MailElecLau	1	09	12	гип	Secondary	2020-2021

								Begin
				Low	High		Course	Service
Code	Name	STI Short Name	Course Description	Grade	Grade	Credit	Туре	Year
			2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Applications of Finite Mathematics was developed as a fourth-year course that extends beyond the three years of essential content that is required for all high school students. Applications of Finite Mathematics provides students with the opportunity to explore mathematics concepts related to discrete mathematics and their application to computer science and other fields and includes areas of study that are critical to the fast-paced growth of a technologically advancing world. The wide range of topics in Applications of Finite Mathematics includes logic, counting methods, information processing, graph theory, election theory, and fair division, with an emphasis on relevance to real-world problems. Logic includes recognizing and developing logical arguments and using principles of logic to solve problems. Students are encouraged to use a variety of approaches and representations to make sense of advanced counting problems, then develop formulas that can be used to explain patterns. Applications in graph theory allow students to use mathematical structures to represent real world problems and make informed decisions. Election theory and fair division applications also engage students in democratic decision-making so that they recognize the power of mathematics in shaping society. The prerequisite for Applications of Finite Mathematics is Algebra II with Statistics. Note: Students may not receive credit for both Applications of Finite Mathematics and Discrete Mathematics, as Applications of Finite Mathematics includes mathematics content that also appears in the Discrete Mathematics course.				(50) Elective	
210067	Applications of Finite Mathematics	AppFinitMath		09	12	Full	Secondary	2020-2021

				Low	High		Course	Begin Service
Code	Name	STI Short Name	Course Description	Grade	Grade	Credit	Type	Year
210068	Mathematical Modeling	MathModeling	2020-2021 TRANSITON YEAR COURSE FOR MATHEMATICS; OPTIONAL. Mathematical Modeling is developed to expand on and reinforce the concepts introduced in Geometry with Data Analysis, Algebra I with Probability, and Algebra II with Statistics by applying them in the context of mathematical modeling to represent and analyze data and make predictions regarding real-world phenomena. Mathematical Modeling is designed to engage students in doing, thinking about, and discussing mathematics, statistics, and modeling in everyday life. It allows students to experience mathematics and its applications in a variety of ways that promote financial literacy and data-based decision-making skills. This course also provides a solid foundation for students who are entering a range of fields involving quantitative reasoning, whether or not they require calculus. The prerequisite for Mathematical Modeling is Algebra II with Statistics. Note: Students may not receive credit for both Mathematical Modeling and Algebra with Finance, as Mathematical Modeling includes mathematics content that also appears in the Algebra with Finance course.	09	12	Full	(50) Elective Secondary	2020-2021
490029	Pharmacy Technician	Pharm Tech	Pharmacy Technician is a one credit course that prepares students for the Pharmacy Technician Certification exam and a pharmaceutical career. The course covers content related to medicine, federal requirements, patient safety, quality assurance, and order processing. Foundations of Health Science is a prerequisite course.	09	12	Full	(80) Career Tech	2020-2021
490036	Operating Room Foundations	Op Rm Found	Operating Room Foundations is a one-credit course that introduces students to the exciting and dynamic world of the operating room, and exposes students to an array of multidisciplinary specialties and concepts within perioperative medicine. Course content focuses on the knowledge and skills needed to promote patient safety and optimize surgical outcomes. This course is designed to provide students the opportunity to use a variety of equipment, including heat transfer/digital printers, cutters, embroidery machines,	09	12	Full	(80) Career Tech	2020-2021
510046	Creative Designs	Creat Desgn	heat presses, quilting machines, and computer design software programs to develop skills needed to effectively organize and manage a business while also learning the necessary employability (soft) skills to be a productive employee in the workforce.	09	12	Full	(80) Career Tech	2020-2021

								Begin
				Low	High		Course	Service
Code	Name	STI Short Name	Course Description	Grade	Grade	Credit	Туре	Year
			A one credit course designed for high school students to explore the work of					
			engineers and their role in the design and development of solutions to real-world				(80) Career	
560033	Engineering Essentials-PLTW	EngEss PLTW	problems.	09	12	Full	Tech	2020-2021
			Theory 0. Lab 3. Students learn to safely operate an injection molding machine.					
	INTRODUCTION TO INJECTION MOLDING		Students learn to properly startup, set machine controls and shutdown a molding				(90) College	
922853	LAB	AUT 146	machine.	10	12	Full	Credit	2020-2021
			Theory 1. Lab 2. This course is designed to introduce the students to the theory					
			of game design and production using industry software and related technologies.					
			Upon completion, students should be able to demonstrate the technical and				(90) College	
924017	INTRODUCTION TO GAME DESIGN I	CAP 104	creative aspects of game development. Prerequisite: CAP 101	10	12	Full	Credit	2020-2021
			Theory I. Lab 2. This course is designed to introduce fundamental concepts of					
			computer programming as applied to 3D modeling software and game engines.					
	INTRO TO COMPUTER PROGRAMMING	G + D 105	Upon completion, students should be able to demonstrate knowledge of industry	10	10		(90) College	2020 2021
924018	FOR 3D	CAP 105	programming language.	10	12	Full	Credit	2020-2021
			relate to the motel working industry. Taning include machine shore seferty					
			relate to the metal working industry. Topics include machine shop safety,					
			banch grinders, and layout instruments. Unon completion, students should be able					
	INTRODUCTION TO MACHINING		to sofely perform basic measurement and layout drilling sowing turning and				(00) College	
024220	TECHNOLOGY	MSD 125	milling to make parts and tools	10	12	E-11	(90) Conege	2020 2021
934230	TECHNOLOGI	WIST 123		10	12	гин	Clean	2020-2021
			Theory 2. Lab 4. This course provides students with instruction and					
			opportunities to develop skills on joint design, joint preparation, and fit-up of					
			groove welds in accordance with applicable welding codes. Emphasis is placed				(90) College	
938640	SMAW GROOVE	WDT 106	on safe operation, joint design, joint preparation, and fit-up.	10	12	Full	Credit	2020-2021
220010						1 411		
			Theory 2, Lab 1. This course provides the student with instruction on safety					
			practices and terminology in the Shielded Metal Arc Welding (SMAW) process.					
			Emphasis is placed on safety, welding terminology, equipment identification, set					
			up and operation, and related information in the SMAW process. This course					
			also covers the rules of basic safety and identification of shop equipment and					
			provides the student with the skills and knowledge necessary for the safe				(90) College	
938641	SMAW FILLET/OFC/PAC/CAC	WDT 107	operation of oxy-fuel cutting, plasma arc cutting and carbon arc cutting.	10	12	Full	Credit	2020-2021

								Begin
				Low	High		Course	Service
Code	Name	STI Short Name	Course Description	Grade	Grade	Credit	Туре	Year
			Theory 4. Lab I. Introduces the facilities, methods, and processes used in the					
			shipbuilding and repair industry. Describes the impact the industry has on the				(00) C 11	
	INTRODUCTION TO THE MARITIME		U.S. economy and explores the various craft opportunities available to workers.	10	10		(90) College	2020 2021
938642	INDUSTRY	WD1 140	Provides an overview of the safety practices specific to the industry.	10	12	Full	Credit	2020-2021
			Theory 2. Lab 2. This course is designed to cover weiding Safety, Oxytuel					
	INTRODUCTION TO MADITIME		Cutting, Base Metal Preparation, weld Quality, Snielded Metal Arc Electrodes,				(00) Callera	
020642	STRUCTURAL EITTING	WDT 170	Tack weiding, Fire watch, Introduction to Structural Filter Drawings, and Filting	10	10	F 11	(90) College	2020 2021
938643	STRUCTURAL FITTING	WD11/0	Une. The course is designed to introduce the student to the basic concents, terminology	10	12	Full	Credit	2020-2021
			and procedures associated with applied analytical skills needed to succeed in					
			higher-level courses to include: basic mathematical applications use of scientific					
	INTRODUCTION TO APPLIED		calculators measurements and geometric and triangulation methods. Theory 3				(90) College	
038611	TECHNOLOGIES	WDT 100	Lab ()	10	12	Full	()0) Conege	2020-2021
<u>9</u> 58044		WD1 100	Theory 1H Lab 2H This course is designed to provide students with knowledge.	10	12	1 un	Credit	2020-2021
			and skills related to safety in a manufacturing environment. This course is					
			equivalent to AUT 102.				(90) College	
938808	MSSC Safety Course	WKO 141		10	12	Full	Credit	2020-2021
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Theory 1H, Lab 2H. This course is designed to provide students with knowledge			1 411		
			and skills related to quality practices and measurement in a manufacturing					
			environment. This course is equivalent to ADM 106.				(90) College	
938809	MSSC Quality Practices and Measurement	WKO 142		10	12	Full	Credit	2020-2021
	MSSC MANUFACTURING PROCESSES AND		Theory 1, Lab 2. Knowledge and skills related to manufacturing processes and				(90) College	
938810	PRODUCTION	WKO 143	production in a manufacturing environment	10	12	Full	Credit	2020-2021
							$(00) C_{-11}$	
020011	MOOC MAINTENIANCE AWADENEGO	WKO 144	I neory 1, Lab 2. Knowledge and skills related to maintenance awareness in a	10	12	F 11	(90) College	2020 2021
938811	MISSU MAINTENANCE AWAKENESS	WKU 144	manufacturing environment	10	12	Full	Credit	2020-2021

Code	Name	STI Short Name	Course Description	Low Grade	High Grade	Credit	Course Type	Begin Service Year
941211	ADVANCED EMERGENCY MEDICAL TECHNICIAN	EMS 155	Theory 4, Lab 3. This course is required to apply for certification as an Advanced Emergency Medical Technician (AEMT). This course introduces the theory and application of concepts related to the profession of the AEMT. The primary focus of the AEMT is to provide basic and limited advanced emergency medical care and transportation for critical and emergent patients who access the emergency medical system. This individual possesses the basic knowledge and skills necessary to provide patient care and transportation. Topics include: extending the knowledge of the EMT to a more complex breadth and depth, intravenous access and fluid therapy, medication administration, blind insertion airway devices, as well as the advanced assessment and management of various medical illnesses and traumatic injuries. This course is based on the NHTSA National Emergency Medical Services Education Standards. Requires licensure or eligibility for licensure at the EMT level and EMS 156 must be taken as a correquisite.	10	12	Full	(90) College Credit	2020-2021
941212	ADV EMERGENCY MEDICAL TECH CLINICAL	EMS 156	Theory 0, Lab 2. This course is required to apply for certification as an Advanced Emergency Medical Technician (AEMT). This course provides students with clinical education experiences to enhance knowledge and skills learned in EMS 155. This course helps prepare students for the National Registry AEMT Exam. The student will have the opportunity to use the basic and advanced skills of the AEMT in the clinical and field settings under the direct supervision of licensed healthcare professionals. Requires licensure or eligibility for licensure at the EMT level and EMS 155 must be taken as a co-requisite.	10	12	Full	(90) College Credit	2020-2021
943192	MSSC SAFETY COURSE	ADM 291	Theory 3. Lab 0. This course is designed to provide students with knowledge and skills related to safety in a manufacturing environment	10	12	Full	(90) College Credit	2020-2021
943193	MSSC QUALITY PRACTICES AND MEASUREMENT	ADM 292	Theory 3. Lab 0. This course is designed to provide students with knowledge and skills related to quality practices and measurement in a manufacturing environment.	10	12	Full	(90) College Credit	2020-2021