## **MATHEMATICS DEPARTMENT**

The Mathematics Department offers a range of courses to provide students with opportunities to actively participate in learning the structure and the nature of mathematics, which follows the <u>Mathematical Standards and Practices</u> defined by the state. Students begin their mathematics program at FHS at different points, based on their middle school programs. The basic sequence of mathematics courses is Algebra I, Geometry, and Algebra II. Many students enroll in higher-level mathematics courses after successful completion of Algebra II. All mathematics courses make use of technology, such as Geometer's Sketchpad, Minitab, and/or graphing calculators, when appropriate. The Mathematics Department expects that students purchase their own graphing calculators (which will be used throughout their math program at the high school and beyond).

Course Title:	Algebra I	Course No.:	1202	<i>Offered:</i> All year	
Grade:	9	Level:	Honors	Credits: 5	
Department:	Mathematics	Affiliated Dept.:	n/a	Duration: Full year	

*Description:* Algebra I Honors is the entry level course offered in the honors program. The major topics covered include the properties of the real number system, operations with polynomial and rational expressions, solutions to equations and inequalities, and the concept of a function. These algebraic topics are integrated in real world problems that also explore topics from discrete mathematics, such as statistics and probability. Since algebra permeates all of mathematics, a strong foundation in this first course is essential for success in future courses. For success in this course, students need fluency with number facts and operations and a commitment to work effectively both in and out of class. Students are assessed on both content and fluency. Upon completion of this course, students are able to enroll in Geometry CP or Honors based on grades and recommendation of Algebra 1 teacher.

*Prerequisite(s):* Recommendation of 8th grade Math teacher.

Expectations Supported: 1A, 1B, 1C, 1D, 2, 4A, 4B

Expectations Assessed: 3A, 3B, 3C, 3D

Course Title:	Algebra I	Course No.:	1201	Offered:	All year
Grade:	9	Level:	College Prep	Credits:	5
Department:	Mathematics	Affiliated Dept.:	n/a	Duration:	Full year

*Description:* Algebra I is an entry level course offered in the college preparatory program. The major topics covered include the properties of the real number system, operations with polynomial and rational expressions, solutions to equations and inequalities, and the concept of a function. These algebraic topics are integrated in real world problems that also explore topics from discrete mathematics, such as statistics and probability. Since algebra permeates all of mathematics, a strong foundation in this first course is essential for success in future courses. For success in this course, students need fluency with number facts and operations and a commitment to work effectively both in and out of class. Upon completion of this course, students are able to enroll in Geometry CP or Honors based on grades and recommendation of Algebra 1 teacher.

*Prerequisite(s):* Completion of 8th grade Math.

Expectations Supported: 1A, 1B, 1C, 1D, 2, 4A, 4B

Expectations Assessed: 3A, 3B, 3C, 3D

Course Title:	Algebra II	Course No.:	1222	Offered:	All year			
Department:	Mathematics	Affiliated Dept.:	n/a	Duration:	Full year			
Grade:	9, 10, 11	Level:	Honors	Credits:	5			
Description:	Algebra II Honors extends and further explores topics previously developed in Algebra I and Geometry. Additional topics covered include the complex number system, vectors, matrices, and trigonometry. Students explore and analyze the mathematics algebraically, numerically, and graphically. To be successful in this honors course students must have a strong algebraic foundation and fluency in algebraic vocabulary and notation. Students also need fluency with number facts and operations and a commitment to work effectively both in and out of class. Students are assessed on both content and fluency. A graphing calculator is required. Upon completion of this course, students are able to enroll in Pre-Calculus.							
	grade of B+	y Honors with minimum	i grade of C or completion	on of Geomet	ry CP with minimum			
	Expectations Supported: 1A, 1B, 1C, 1D, 2, 4	A, 4B	Expectations Assessed: 3A, 3H	B, 3C, 3D				
Course Title:	Algebra II	Course No.:	1221	Offered:	All year			
Grade:	9, 10, 11	Level:	College Prep	Credits:	5			
Department:	Mathematics	Affiliated Dept.:	n/a	Duration:	Full year			
Description:	<ul> <li>m: Algebra II CP extends and further explores topics previously developed in Algebra I and Geometry. Additional topics covered include the complex number system, vectors, matrices, and trigonometry. Students explore and analyze the mathematics algebraically, numerically, and graphically. To be successful in this course, students must have a competent algebraic foundation and fluency in algebraic vocabulary and notation. Students also need fluency with number facts and operations and a commitment to work effectively both in and out of class. A graphing calculator is required. Upon completion of this course, students are able to enroll in Pre-Calculus.</li> <li>Prerequisite(s): Successful completion of Geometry CP or Honors.</li> </ul>							
	Expectations Supported: 1A, 1B, 1C, 1D, 2, 4	A, 4B	Expectations Assessed: 3A, 3H	B, 3C, 3D				
Course Title:	Algebra II - FAA	Course No.:	1282	Offered:	All year			
Grade:	10, 11	Level:	College Prep	Credits:	5			
Department:	Mathematics	Affiliated Dept.:	Franklin Arts Academy	Duration:	Full year			
Description:	• Algebra II - FAA extends and further explores topics previously developed in Algebra I and Geometry. Additional topics covered include the complex number system, vectors, matrices, and trigonometry. Students explore and analyze the mathematics algebraically, numerically, and graphically. To be successful in this honors course students must have a competent algebraic foundation and fluency in algebraic vocabulary and notation. Students also need fluency with number facts and operations and a commitment to work effectively both in and out of class. Students are required to complete assignments that integrate both art and mathematics. A graphing calculator is required. Upon completion of this course, students are able to enroll in Pre-Calculus.							
	Emperations Supported: 1A 1B 1C 1D 2		Europeantiques Assessed 2 A 21	20 20				
	Expectations Supported: 1A, 1B, 1C, 1D, 2, 4	łΑ, 4 <b>b</b>	Expectations Assessed: 3A, 31	3, 3C, 3D				

Course Title:	Algebra II Applications	Course No.:	1220	Offered:	All year		
Grade:	12	Level:	College Prep	Credits:	5		
Department:	Mathematics	Affiliated Dept.:	n/a	Duration:	Full year		
Description:	The Algebra II Applications CP course is the se need more time to become proficient with the developed in Algebra I and Geometry. Addi- trigonometry. Students explore and analyze this course students need fluency with numb class. A graphic calculator is required. Upo	cond course in this t e concepts of Algel itional topics cover the mathematics al er facts and operati n successful compl	two-year sequence that is designed ora. This course extends and ed include the complex numb gebraically, numerically, and ons and a commitment to wo etions of this course, students	gned specif further exp er system, graphically rk effective s are able to	ically for students who lores topics previously vectors, matrices, and 7. To be successful in ly both in and out of enroll in Statistics.		
	<i>Prerequisite(s):</i> Successful completion of Alge	bra II Concepts CP.					
	Expectations Supported: 1A, 1B, 1C, 1D, 2, 4A, 4B Expectations Assessed: 3A, 3B, 3C, 3D						
Course Title:	Algebra II Concepts	Course No.:	1219	Offered:	All year		
Grade:	11, 12	Level:	College Prep	Credits:	5		
Department:	Mathematics	Affiliated Dept.:	n/a	Duration:	Full year		
	<ul> <li>become proficient with the concepts of Algebra. This course extends and further explores topics previously developed in Algebra I and Geometry. Additional topics covered include the complex number system, vectors, matrices, and trigonometry. Students explore and analyze the mathematics algebraically, numerically, and graphically. To be successful in this course students need fluency with number facts and operations and a commitm to work effectively both in and out of class. A graphing calculator is required. Upon successful completion of this course, students are required to enroll in Algebra II Applications CP.</li> <li><i>Prerequisite(s):</i> Successful completion of Geometry CP and recommendation of Geometry teacher.</li> <li><i>Expectations Supported:</i> 1A, 1B, 1C, 1D, 2, 4A, 4B</li> </ul>						
Course Title:	Calculus AB	Course No.:	1252	Offered:	All vear		
Grade:	11, 12	Level:	Honors	Credits:	5		
Department:	Mathematics	Affiliated Dept.:	n/a	Duration:	Full year		
Description:	MathematicsAffiliated Dept.:n/aDuration:Full yearCalculus AB Honorsdevelops all topics on the Advanced Placement Calculus AB exam, but at a slower pace than AP. A preliminary review of polynomial, rational, exponential, logarithmic, and trigonometric functions and conics is completed during summer break and assessed during the first week of school. The concepts of differentiation and integration and their applications are explored, developed, and analyzed in detail. To be successful in this honors course students must have a strong algebraic foundation and fluency in algebraic vocabulary and notation. All topics are explored numerically, graphically, and algebraically. Success in this course requires a strong and sound foundation in logic, algebra, geometry, and trigonometry, in addition to persistent, effective effort. A graphing calculator is required. Upon completion of this course, students may enroll in AP Calculus BC or Statistics (AP, Honors, or CP) based on grades and recommendation of the calculus honors teacher.Prerequisite(s):Completion of Pre-Calculus Honors with a minimum grade of C or completion of Pre-Calculus CP with minimum grade of B+Expectations Supported:1C, 2, 4A						

Course Title:	Calculus	Course No.:	1251	Offered:	All year		
Grade:	11, 12	Level:	College Prep	Credits:	5		
Department:	Mathematics	Affiliated Dept.:	n/a	Duration:	Full year		
Description:	<u>Calculus CP</u> develops most topics on the Advanced Placement Calculus AB exam, but at a slower pace than AP and Honors. A preliminary review of polynomial, rational, exponential, logarithmic, and trigonometric functions and conics is strongly recommended during summer break and assessed during the first week of school. The concepts of differentiation and integration and their applications are explored, developed, and analyzed in detail. To be successful in these course students must have a competent algebraic foundation and fluency in algebraic vocabulary and notation. All topics are explored numerically, graphically, and algebraically. Success in this course requires a competent and sound foundation in logic, algebra, geometry, and trigonometry, in addition to persistent, effective effort. A graphing calculator is required. Upon completion of this course, students are able to enroll in Statistics.						
	<i>Prerequisite(s):</i> Successful completion of Pre-Calculus Honors or CP.						
	Expectations Supported:1C, 2, 4AExpectations Assessed: 1D, 3A, 3D						
Course Title:	Advanced Placemo Calculus AB	ent Course No.:	1253	Offered:	All year		
Grade:	11, 12	Level:	Advanced Placement	Credits:	5		
Department:	Mathematics	Affiliated Dept.:	n/a	Duration:	Full year		
Description:	<u>AP Calculus AB</u> develops all topics on the Advanced Placement Calculus AB exam. A preliminary review of polynomial, rational, exponential, logarithmic, and trigonometric functions and conics is completed during summer break and assessed during the first week of school. The concepts of differentiation and integration and their applications are explored, developed, and analyzed in detail with a high degree of rigor and sophistication. All topics are explored numerically, graphically, and algebraically. The course is demanding with respect to classwork and homework. Success in this course requires a strong and sound foundation in logic, algebra, geometry, and trigonometry, in addition to persistent, effective effort. A graphing calculator is required. Students who complete this course take the AP Calculus AB exam for credit and/or advanced placement standing in college. If the student does not take the AP exam, the student is required to take a final exam of the same rigor as the AP exam, regardless of his/her final course grade.						
	Prerequisite(s): Prerequisiteacher. I	ite: Completion of Pre-Calculus H with n Refer to the Program of Studies for addition	ninimum grade of B+ and reco onal information and requiremen	ommendations.	on of Pre-Calculus		
	Expectations Supported: 1C,	2, 4A	Expectations Assessed: 1D, 3A, 3	D			

Course Title:	Advanced P Calculus BC	lacement	Course No.:	1254	Offered:	All year		
Grade:	12		Level:	Advanced Placement	Credits:	5		
Department:	Mathematics		Affiliated Dept.:	n/a	Duration:	Full year		
Description:	<u>AP Calculus BC</u> continues the development of all topics on the Advanced Placement Calculus BC exam. The course completes the remaining topics of a second semester college calculus course which includes vectors, parametric, series, and the polar coordinate system. A review of the foundation of these remaining topics is completed during summer break and is assessed during the first week of school. All topics are explored numerically, graphically, and algebraically. The course is demanding with respect to classwork and homework. Success in this course requires a strong and sound foundation in logic, algebra, geometry, and trigonometry, in addition to persistent, effective effort. A graphing calculator is required. Students who complete this course take the AP Calculus BC exam for credit and/or advanced placement standing in college. If the student does not take the AP exam, the student is required to take a final exam of the same rigor as the AP exam, regardless of his/her final course grade.							
	<i>Prerequisite(s):</i> Prerequisite: Completion of Calculus AB with minimum grade of C or Calculus H with minimum grade of B+ and recommendation of Calculus H teacher. Refer to the Program of Studies for additional information and requirements							
	Expectations Suppo	orted: 1C, 2, 4A	6	Expectations Assessed: 1D,	3A, 3D			
Course Title:	Computer S	cience AP	Course No.:	1264	Offered:	All year		
Grade:	11, 12		Level:	Advanced Placement	Credits:	5		
Department:	Mathematics		Affiliated Dept.:	n/a	Duration:	Full year		
Description:	<u>AP Computer Science</u> develops all topics on the AP Computer Science exam. Students design and implement computer-based solutions to problems in a variety of application areas, develop and select appropriate algorithms and data structures to solve problems and code fluently in an object-oriented paradigm using the programming language Java. Students become familiar with and are be able to use standard Java library classes from the AP Java subset and read and understand a large program consisting of several classes and interacting objects. Students also learn to read and understand a description of the design and development process leading to such a program, to identify the major hardware and software components of a computer system, their relationship to one another, and the roles of the components within the system. Students who complete this course take the AP Computer Science an exam for credit and/or advanced placement standing in college. If the student does not take the AP exam, the student is required to take a final exam of the same rigor as the AP exam regardless of his/her final course grade.							
	Prerequisite(s): C	Completion of Algebra 2 H with equirements.	a minimum grade of	C. Refer to the Program of	of Studies for add	litional information and		
	Expectations Suppo	orted: 1A, 1B, 1C, 1D, 2		Expectations Assessed: 3A,	3B, 3C, 3D			

Course Title:	Concepts	in Algebra and					
	Geometry		Course No.:	1210	Offered:	All year	
Grade:	10, 11		Level:	College Prep	Credits:	5	
Department:	Mathematics		Affiliated Dept.:	n/a	Duration:	Full year	
Description:	Concepts in Alg course is desig mathematics. T graphically. Fo of class. Upon Algebra 1 CP	gebra and Geometry is a course that co ned for those 10th grade students wh his course also covers content in foun- or success in this course, students new completion of this course, students ar and recommendation from Algebra	ontinues the developm o need more time to dational geometry. S d fluency with numbe e able to enroll in Geo ra I CP teacher.	nent of algebraic thinking est o assimilate the basic algebraic tudents explore and analyze or facts and operations and a ometry CP or Honors.	ablished in Algebra oraic concepts nect the mathematics alg commitment to wo <i>Prerequisite</i>	a 1 CP. The content of this essary for the continuation of gebraically, numerically, and tk effectively both in and out (s): Completion of	
	Expectations Sup	pported: 1A, 1B, 1C, 1D, 2, 4A, 4B		Expectations Assessed: 3A,	3B, 3C, 3D		
Course Title:	Geometry		Course No.:	1212	Offered:	All year	
Grade:	9, 10, 11		Level:	Honors	Credits:	5	
Department:	Mathematics		Affiliated Dept.:	n/a	Duration:	Full year	
Description:	Geometry Hono probability. Th Students may u strong algebraid commitment to are able to enro	ors takes a formal approach to the disc e course integrates algebra, which dev se technology software, such as Georr c foundation and fluency in algebraic work effectively both in and out of cl ll in Algebra 2.	ipline. Major topics velops the student's n heter's Sketchpad, to vocabulary and notati ass. Students are asso	include congruence, similarinathematical power to explor explore concepts. To be succonstruction on Students also need fluence essed on both content and fluence	ty, measurement, and e, make conjecture construction in these court cy with number fact ency. Upon compl	nd dimension, along with s, and reason logically. rse students must have a ts and operations and a letion of this course, students	
	Prerequisite(s):	Completion of Algebra 1 Hono grade of B+	rs with minimum	grade of C or completi	on of Algebra	CP with minimum	
	Expectations Su	pported: 4A, 4B		Expectations Assessed: 3A,	3B, 3C, 3D		
Course Title:	Geometry		Course No.:	1211	Offered:	All year	
Grade:	9, 10, 11		Level:	College Preparatory	Credits:	5	
Department:	Mathematics		Affiliated Dept.:	n/a	Duration:	Full year	
Description:	<i>on:</i> Geometry CP develops the same concepts as Geometry Honors. Major topics include congruence, similarity, measurement, and dimension, along with probability. The course integrates algebra, which develops the student's mathematical power to explore, make conjectures, and reason logically. Students may use technology software, such as Geometer's Sketchpad, to explore concepts. To be successful in these course students must have a competent algebraic foundation and fluency in algebraic vocabulary and notation. Students also need fluency with number facts and operations and a commitment to work effectively both in and out of class. Upon completion of this course, students are able to enroll in Algebra 2. <i>Prerequisite(s):</i> Successful completion of Algebra 1 CP/Honors or Concepts in Algebra and Geometry.						
	Expectations Su	pported: 4A, 4B		Expectations Assessed: 3A,	3B, 3C, 3D		

Course Title:	Geometry - FAA	Course No.:	1286	Offered:	All year	
Grade:	10, 11	Level:	Honors	Credits:	5	
Department:	Mathematics	Affiliated Dept.:	Franklin Arts Academy	Duration:	Full year	
Description:	Geometry Honors takes a formal approach to the probability. The course integrates algebra, which Students may use technology software, such as C integrate both art and mathematics. To be succes vocabulary and notation. Students also need fluen Students are assessed on both content and fluence	discipline. Major topics a develops the student's n beometer's Sketchpad, to ssful in this course, studer ney with number facts and y. Upon completion of th	include congruence, similarity, n nathematical power to explore, m explore concepts. Students are re- tts must have a strong algebraic f l operations and a commitment to is course, students are able to em-	easurement, an ake conjecture equired to comp oundation and o work effective roll in Algebra	nd dimension, along with s, and reason logically. plete assignments that fluency in algebraic ely both in and out of class. 2.	
	Prerequisite(s): Completion of Algebra 1 H grade of B+	Ionors with minimum	grade of C or completion	of Algebra 1	l CP with minimum	
	Expectations Supported: 4A, 4B		Expectations Assessed: 3A, 3B,	, 3C, 3D		
Course Title:	Geometry - FAA	Course No.:	1285	Offered:	All year	
Grade:	10, 11	Level:	College Prep	Credits:	5	
Department:	Mathematics	Affiliated Dept.:	Franklin Arts Academy	Duration:	Full year	
Description:	Geometry - FAA CP develops the same concepts dimension, along with probability. The course in reason logically. Students may use technology sc assignments that integrate both art and mathemat fluency in algebraic vocabulary and notation. Stu in and out of class. Upon completion of this cour <i>Prerequisite(s):</i> Successful completion of A	as Geometry - FAA Hon tregrates algebra, which d oftware, such as Geometer ics. To be successful in t idents also need fluency w rse, students are able to er lgebra 1 CP/Honors or	ors. Major topics include congru- evelops the student's mathematic 's Sketchpad, to explore concept hese course students must have a vith number facts and operations iroll in Algebra 2. Concepts in Algebra and Geor	and a commitment.	y, measurement, and plore, make conjectures, and e required to complete ebraic foundation and nent to work effectively both	
	Expectations Supported: 4A, 4B		Expectations Assessed: 3A, 3B,	, 3C, 3D		
Course Title:	Pre-Calculus	Course No.:	1232	Offered:	All year	
Grade:	10, 11, 12	Level:	Honors	Credits:	5	
Department:	Mathematics	Affiliated Dept.:	n/a	Duration:	Full year	
Description:	<ul> <li><i>n</i>: Pre-Calculus Honors develops the foundation necessary to build the concepts of calculus. A solid foundation in algebra and geometry is essential, and students are expected to have successfully completed both Algebra II Honors and Geometry Honors. Students explore and analyze the mathematics algebraically, numerically, and graphically. To be successful in this honors course students must have a strong algebraic foundation and fluency in algebraic vocabulary and notation. Students also need fluency with number facts and operations and a commitment to work effectively both in and out of class. Students are assessed on both content and fluency. A graphing calculator is required. Upon completion of Pre -Calculus Honors, students are able to enroll in Calculus AP/H/CP, or Statistics AP/H.</li> <li><i>Prerequisite(s)</i>: Completion of Algebra 2 Honors with minimum grade of C+ or completion of Algebra 2 CP with minimum grade of B+</li> </ul>					
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Course Title:	Pre-Calculus	Course No.:	1231	Offered:	All year		
Grade:	10, 11, 12	Level:	College Prep	Credits:	5		
Department:	Mathematics	Affiliated Dept.:	n/a	Duration:	Full year		
Description:	Pre-Calculus CP develops the foundati explore and analyze the mathematics a algebraic foundation and fluency in alg to work effectively both in and out of Calculus H/CP or Statistics AP/H/CP.	on necessary to build the concepts o lgebraically, numerically, and graph gebraic vocabulary and notation. Stu class. A graphing calculator is requi	f calculus. A solid foundation ically. To be successful in the dents also need fluency with r red. Upon completion of Pre	n in algebra and g ese course student number facts and -Calculus CP, stu	eometry is essential. Students is must have a competent operations and a commitment dents are able to enroll in		
	<i>Prerequisite(s):</i> Successful compl	etion of Algebra 2 CP/Honors.					
	Expectations Supported:	1C, 2, 4A	Expectations Assessed: 1D, 3	3A, 3D			
Course Title:	Pre-Calculus - FAA	Course No.:	1283	Offered:	All year		
Grade:	11	Level:	College Prep	Credits:	5		
Department:	Mathematics	Affiliated Dept.:	Franklin Arts Academy	Duration:	Full year		
	Students explore and analyze the mathematics algebraically, numerically, and graphically. Students are required to complete assignments that integra both art and mathematics. To be successful in this course, students must have a competent algebraic foundation and fluency in algebraic vocabulary and notation. Students also need fluency with number facts and operations and a commitment to work effectively both in and out of class. A graphing calculator is required. Upon completion of Pre -Calculus CP, students are able to enroll in Calculus H/CP or Statistics AP/H/CP.         Prerequisite(s):       Successful completion of Algebra II CP/Honors.         Expectations Supported:       1C, 2, 4A						
Course Title:	Statistics AP	Course No.:	1243	Offered:	All year		
Grade:	11, 12	Level:	Advanced Placement	Credits:	5		
Department:	Mathematics	Affiliated Dept.:	n/a	Duration:	Full year		
Description:	<u>AP Statistics</u> introduces students to the major concepts and tools for collecting, analyzing, and interpreting data. Both descriptive and inferential statistical concepts are developed. Summer work is assigned during summer break and is assessed the first week of school. The statistical program Minitab is used to explore concepts. The course is demanding with respect to classwork and homework. Success in this course requires a strong and sound foundation in algebra II concepts, in addition to persistent, effective effort. Writing skills are also essential in statistics. A graphing calculator is required. Students who complete this course take the AP Statistics exam for credit and/or advanced placement standing in college. If the student does not take the AP exam, the student is required to take a final exam of the same rigor as the AP exam, regardless of his/her final course grade. <i>Prerequisite(s):</i> Completion of Algebra 2 Honors with a minimum grade of B+ and recommendation of Algebra 2 Honors teacher (or current math teacher). Pafer to the first few pages of this document for information and requirements.						
	Expectations Supported: 1A, 1B, 2, 4	A	Expectations Assessed: 1C, 1	ID, 1E, 3A, 3B,	3C, 3D		

Course Title:	Statistics	Course No.:	1242	Offered:	All year		
Grade:	12	Level:	Honors	Credits:	5		
Department:	Mathematics	Affiliated Dept.:	n/a	Duration:	Full year		
Description:	<u>Statistics Honors</u> introduces students to the major concepts and tools for collecting, analyzing, and interpreting data. Both descriptive and inferential statistical concepts are developed. The statistical program Minitab is used to explore concepts. Success in this course requires a strong and sound foundation in algebra II concepts, in addition to persistent, effective effort. Writing skills are also essential in statistics. Students are assessed on both content and fluency. A graphing calculator is required. <i>Prerequisite(s):</i> Completion of Algebra 2 or Pre-Calculus H with a minimum grade of C or completion of Algebra 2 CP or Pre-Calculus CP with a minimum grade of B+						
	Expectations Supported: 1A, 1B, 2, 4A		Expectations Assessed: 1C,	1D, 1E, 3A, 3B,	3C, 3D		
Course Title:	Statistics	Course No.:	1241	Offered:	All year		
Grade:	12	Level:	College Prep	Credits:	5		
Department:	Mathematics	Affiliated Dept.:	n/a	Duration:	Full year		
Description:	Statistics CP introduces students to the major concept statistical concepts are developed. The statistical prog foundation in algebra II concepts, in addition to persis required. <i>Prerequisite(s):</i> Successful completion of Algeb	s and tools for collect gram Minitab is used stent, effective effort. ra 2 CP/H or Pre-C	ting, analyzing, and interpreti- to explore concepts. Success Writing skills are also essen Calculus CP.	ng data. Both dese in this course req tial in statistics. A	criptive and inferential uires a strong and sound a graphing calculator is		
	Expectations Supported: 1A, 1B, 2, 4A		Expectations Assessed: 1C,	1D, 1E, 3A, 3B,	3C, 3D		
Course Title:	Statistics (Hybrid online course )	Course No.:	1241.ONL	Offered:	All year		
Grade:	12	Level:	College Preparatory	Credits:	5		
Department:	Mathematics	Affiliated Dept.:	n/a	Duration:	Full year		
Description:	This Statistics hybrid online course has the same curriculum as the Statistics CP course. However, this section of the course integrates an online course management system as a medium to learn statistics. To take a hybrid course, students must be able to use their computer to send and read email, to find information on the Internet, to upload assignments, and to participate in online discussions. Students must have a basic understanding of computers and the Internet. Students need to be able to work both cooperatively and independently. In order to be successful in this course, students need to be self-motivated and disciplined. A graphing calculator is required. <i>Prerequisite(s):</i> Successful completion of Algebra 2 CP/H or Pre-Calculus CP/H.						

Course Title:	Statistics - FAA	Course No.:	1284	Offered:	All year
Grade:	12	Level:	College Preparatory	Credits:	5
Department:	Mathematics	Affiliated Dept.:	Franklin Arts Academy	Duration:	Full year

*Description:* <u>Statistics - FAA</u> introduces students to the major concepts and tools for collecting, analyzing, and interpreting data. Both descriptive and inferential statistical concepts are developed. Students are required to complete assignments that integrate both art and mathematics. The statistical program Minitab is used to explore concepts. Success in this course requires a strong and sound foundation in algebra II concepts, in addition to persistent, effective effort. Writing skills are also essential in statistics. A graphing calculator is required. *Prerequisite(s):* Successful completion of Algebra 2 CP/H or Pre-Calculus CP/H.

Expectations Supported: 1A, 1B, 2, 4A

Expectations Assessed: 1C, 1D, 1E, 3A, 3B, 3C, 3D