

# **St. Peter Chanel High School**

## **Course Catalog 2011 - 2012**

**“Seek What Is Above”**



St. Peter Chanel High School  
480 Avenue of Champions, Bedford, Ohio 44146  
(440) 232-5900

## ST. PETER CHANEL MISSION STATEMENT

St. Peter Chanel is a Catholic diocesan, college preparatory high school for young men and women of different cultural backgrounds. By serving others and living the Gospel messages of respect for life, peace, and social justice, we prepare students to excel in life. We accomplish our mission by encouraging depth of spirituality, excellence in academics, expression of creativity, expertise in interpersonal communications, and overall physical and emotional well being.

## INTRODUCTION

All general academic policies are listed in the Parent-Student Handbook. What follows is a guide to registration for the **2011 - 2012** school year.

Course pre-requisites are included in order to clarify the kind of background necessary for successful completion of the course. Students will not be authorized to take courses for which they do not have the required grades or course background. The courses are taught at the stated level of difficulty and at a pace which matches the requirements for the class.

A student who, with parental consent, wishes to take courses for which school authorization is not given do so at their own risk. Parents will review with the subject teacher the reasons why the teacher is not recommending, beginning or continuing in the subject area. For these courses, a parent requested conference with the teacher and/or department head is required. The signature of the student and parent on a waiver form is needed before a student can be scheduled for a course that is not recommended. In this case the parent and the student accept full responsibility for the decision, for the work entailed, and for the grade attained in that course. The teacher will not provide special tutoring or change the pace of the class to accommodate students who have waivers. Students who drop courses for which waivers were signed will receive a grade of “WF” which means they will receive no quality points or credits for the courses attempted. A waiver CANNOT be issued to gain admission to any Honors or AP course.

Courses selected at registration time will stand. Once the course selection forms are handed in, the master schedule is planned and teachers are assigned according to student selections. Thus, any change after that time, unless initiated by the school, will be assessed a fee. There is a charge of \$50 for each drop/add.

A student may drop a course within the first two weeks of the course with the approval of the teacher, parent, and guidance counselor. The course that was dropped will not appear on the permanent record. A “WD” will be indicated on the permanent record for courses dropped up to the fourth week of the semester and no credit attempted will be calculated into the student’s grade point average. After that time, the student will receive a “WF” for the course and the credit attempted will be calculated into the student’s grade point average. In special cases, the final decision will be made by the administration.

There are eight academic periods and one lunch period available. It is required that students take a minimum of seven academic periods per semester.

## REGISTRATION PROCESS

Students will be given this catalog and other materials in advance of actual registration for courses. Any update will be explained in class sessions. Students should take the catalog home, share it with their parents, and secure their parents' input about course selections.

Should questions arise about the best choice of courses, contact can be made with the guidance counselor who will be able to give advice as to which courses best meet the student's aptitudes and career plans.

Following the explanation of the procedures given in class, students will register online via TeacherEase during a class period. Final course approval will be by department where these are required. Students who are denied permission to take a course must follow the procedure to secure a waiver form and may take a course on waiver if seats are available. Taking a course through waiver involves those cautions mentioned earlier. Parents and students must sign waiver forms. A waiver CANNOT be used for any Honors or AP courses.

Once registered, students will print out a copy of requested courses which will require parental approval via a parental approval form. This form must be signed by a parent. If a student is not returning to St. Peter Chanel, the course selection form must be signed by the student and the parent with "NOT RETURNING" indicated at the bottom of the form. However, the form will be on file in the main office should there be a change in plans.

Students are to hand in their signed parent approval form to the main office by **Friday, February 11, 2011**. After this date, a \$10 late fee will be charged and the student will be scheduled into classes only if seats are still available. Guidance department personnel will meet with students to discuss their schedules after **February 11, 2011**.

## **GRADUATION REQUIREMENTS**

### **STATE OF OHIO**

The Ohio General Assembly requires that before a diploma can be granted in the State of Ohio a student must have twenty-one (21) credits for graduation. These credits must be earned as follows: four units in English, three units in Mathematics, three units in Science including both Biology and Chemistry, three units in social studies which include American history and American government, ½ unit in physical education and ½ unit in health, two units of the required minimum of seven electives must include business/technology, fine arts or foreign language. Students are required to pass the Ohio Graduation Test. Students graduating after 2013 are required to take a Personal Finance course.

### **ST. PETER CHANEL HIGH SCHOOL**

St. Peter Chanel High School exceeds state standards and requires 24 credits for graduation.

We require: four units of religion, four units of English, three units of mathematics, three units of social studies, three units of science, ½ unit each of physical education and health, one-half unit of fine arts, one-half unit of computer literacy, and ½ unit of public speaking, plus electives.

### **OHIO BOARD OF REGENTS STANDARDS**

The Ohio College Board of Regents standards are not mandatory for all Ohio colleges at the present time; however, many of the colleges in Ohio have accepted their standards. The Board of Regents standards are as follows: four credits in English, three credits in mathematics including geometry and algebra 2, three credits in science, three credits in social studies, and three credits in a foreign language. Most colleges have an additional requirement of one credit in fine arts.

The colleges that have adopted these standards will not accept a student into their four-year college programs unless s/he has met the Board of Regents standards. Colleges will offer these courses (at the student's expense) so students will be able to complete the necessary requirements before entrance into their four-year college programs.

## POST-SECONDARY ENROLLMENT OPTION

Under the Ohio Code, high school students may take college level courses that would count for both high school and college credit. Some of the eligibility regulations follow:

- Students must have an accumulative grade point average of 3.00 or better in considering this option. (3.50 for sophomores)
- Selected Post Secondary Enrollment Option Courses will be offered at St. Peter Chanel High School
- The college credit earned in PSEOP courses is determined by the college. The high school credit is determined by St. Peter Chanel High School.
- The student must apply and be accepted by the college. This includes a Placement Test. Written notice of acceptance must be submitted to the secondary school for approval.
- A student and parent must apply in early March for an interview session with the secondary school counselor. By March 30th a written declaration of attendance must be made.
- The student, parents, and counselor will discuss the rules, possible risks and consequences of participation.
- The student must meet St. Peter Chanel requirements for current year before being allowed to participate in this program.
- The student must provide their own transportation to their Post Secondary option college.
- By April 1st the school administrator must notify the Department of Education Office of Financial Assistance regarding the number of students participating.
- **St. Peter Chanel High School scheduling takes precedence over the Post Secondary School option schedule.**
- **In order to receive a St. Peter Chanel credit for a Post Secondary option course, the Post Secondary option course must cover material similar to a course offered in this catalogue.**
- **Students pay full tuition to St. Peter Chanel High School.**

This is a complicated process and is not recommended for very young students. Several colleges in the area accept only 11th and 12th grade students, and all have limited space for these students.

# HONORS PROGRAM

The Honors Program is designed for the academically gifted student and provides a rigorous program in the areas of math, English, social studies, and the sciences. After completing this curriculum the student will have exceeded the standards set by the Ohio College Board of Regents. Honors and AP classes are weighted according to the grading scale in the Student Handbook.

## RECOMMENDED HONORS PROGRAM:

### 9th Grade

Religion 9  
Honors English 9  
Honors Algebra 1 or Honors Geometry  
Foreign Language  
Honors World History  
Health/PE 1  
Survey of Science

#### **Electives – select up to 1.0 credits**

Semester Electives: Drawing, Painting, Computer Literacy, Choir, Music Appreciation

Full Year Electives: Varsity Band, Beginning Band, Chorale

### 10th Grade

Religion 10  
Honors English 10  
Honors Geometry or Honors Algebra 2/Trig  
Foreign Language  
Honors Biology with lab  
Public Speaking/\*PSEOP Fundamentals of Speech Spch 1010  
PE 2

#### **Electives – select up to 1.0 credits**

Semester Electives: Geography, Drawing, Painting, Creative Writing, Music Appreciation, Choir, Theater

Full Year Electives: Chorale, Band

### 11th Grade

Religion 11  
Honors English 11  
Honors Algebra 2/Trig or Pre-Calculus  
or Advanced Placement Pre-Calculus  
Foreign Language  
AP U.S. History  
Honors Chemistry w/lab  
PSEOP College Composition I Eng 1010\*  
PSEOP College Composition II Eng 1020\*

#### **Electives – select up to 1.5 credits**

**See course catalog**

Student must take a minimum of 7 academic periods each semester

### 12th Grade

Religion 12  
PSEOP British Literature I English 2350  
PSEOP British Literature II English 2360  
Advanced Placement Calculus  
Honors U.S. Government /U.S. Government  
Honors Physics with lab, Physics with lab or  
Anatomy & Physiology  
Foreign Language  
PSEOP College Composition I Eng 1010\*  
PSEOP College Composition II Eng 1020\*

#### **Electives – select up to 3 credits**

**See course catalog**

Student must typically take a minimum of 7 academic periods each semester

**\* PSEOP Courses must be approved by the Guidance Counselor.**

## COLLEGE PREPARATORY PROGRAM

St. Peter Chanel's recommended curriculum for college preparatory students meets all the Board of Regents requirements. After successful completion of the College Preparatory Program, students will have fulfilled the admissions requirements of any college in the State of Ohio and other states as well.

### RECOMMENDED COLLEGE PREPARATORY PROGRAM:

#### 9th Grade

Religion 9  
English 9  
Algebra 1  
Foreign Language  
World History  
Health/PE 1  
Computer Literacy  
Survey of Science

**Electives – select up to 1.0 credits**

**See course catalog**

Semester Electives:

Drawing, Painting, , Music Appreciation, Choir,  
Theater

Full Year Electives: Chorale, Band, Beginning Band

#### 10th Grade

Religion 10  
English 10  
Geometry or Algebra 1  
Foreign Language  
Biology  
PE 2/ Biology Lab  
Public Speaking

**Electives – select up to 1.5 credits**

**See course catalog**

Semester Electives: Computer Literacy I, Geography,

Creative Writing, Music Appreciation, Drawing,  
Painting, Choir

Full Year Electives: Chorale, Band

#### 11th Grade

Religion 11  
English 11  
Algebra 2 or Geometry  
Foreign Language  
U.S. History  
Chemistry with lab

**Electives – select up to 1.5 credits**

**See course catalog**

Student takes a minimum of 7 academic  
periods each semester

#### 12th Grade

Religion 12  
English 12  
Transition to College Math or Pre-Calculus or Algebra 2  
Physics with lab or Anatomy & Physiology or  
Chemistry with lab  
U.S. Government

**Electives – select up to 3 credits**

**See course catalog**

Student takes a minimum of 7 academic  
periods each semester

**\* PSEOP Courses must be approved by the Guidance Counselor.**

## COURSE OFFERINGS 2011 - 2012

### THEOLOGY DEPARTMENT

<u>Course</u>	<u>Code</u>	<u>Grade</u>	<u>Length</u>	<u>Credit</u>	<u>Pre-requisite</u>
Theology I	012	9	Year	1.00	None
Theology II	022	10	Year	1.00	None
Theology III	032	11	Year	1.00	None
Theology IV	042	12	Year	1.00	None

### ENGLISH DEPARTMENT

<u>Course</u>	<u>Code</u>	<u>Grade</u>	<u>Length</u>	<u>Credit</u>	<u>Pre-requisite</u>
English 09	112	9	Year	1.00	None
Honors English 09	113	9	Year	1.00	Department recommendation
English 10	122	10	Year	1.00	None
Honors English 10	123	10	Year	1.00	Department recommendation
English 11	132	11	Year	1.00	None
Honors English 11	133	11	Year	1.00	Department recommendation
PSEOP British Literature English I Eng 2350	190	12	Year	0.50	PSEOP requirement
PSEOP British Literature English II Eng 2360	191	12	Year	0.50	PSEOP requirement
AP English Literature & Composition	180	12	Year	1.00	Department recommendation
English 12	143	12	Year	1.00	Department recommendation
Journalism not offered 2011-12	153	10-12	Sem.	.50	C+ average in English
Creative Writing 1	157	10-12	Sem.	.50	C+ in current English Class
Creative Writing 2	158	10-12	Sem.	.50	Creative Writing 1
Public Speaking	159	10	Sem.	.50	None
PSEOP Fundamentals of Speech Spch 1010	170		Sem.	.50	PSEOP Requirement
PSEOP College Composition 1 English 1010	160	11-12	Sem.	.50	PSEOP Requirement
PSEOP College Composition 2 Eng 1020	161	11-12	Sem.	.50	PSEOP Requirement
Television & Broadcasting	165	11-12	Sem.	.50	None

*\*NOTE: English electives may be taken in addition to the required courses, not as replacement for them.*

## MATHEMATICS DEPARTMENT

<u>Course</u>	<u>Code</u>	<u>Grade</u>	<u>Length</u>	<u>Credit</u>	<u>Pre-requisite</u>
Algebra 1	212	9	Year	1.00	None
Honors Algebra 1	213	9	Year	1.00	Department recommendation
Geometry	222	9-10	Year	1.00	Algebra 1
Honors Geometry	223	9-10	Year	1.00	Department recommendation
Algebra 2	232	10-11	Year	1.00	Geometry
Honors Algebra2/Trigonometry	233	10-11	Year	1.00	Department recommendation
Transition to College Math	241	11-12	Year	1.00	Department recommendation
Pre-Calculus	242	11-12	Year	1.00	Department recommendation
Advanced Placement Calculus	243	11-12	Year	1.00	Department recommendation

## SCIENCE DEPARTMENT

<u>Course</u>	<u>Code</u>	<u>Grade</u>	<u>Length</u>	<u>Credit</u>	<u>Pre-requisite</u>
Survey of Science	312	9	Year	1.00	None
Biology	322	10	Year	1.00	None
Honors Biology	323	10	Year	1.00	Department Recommendation
Chemistry	332	11-12	Year	1.00	Biology; co-requisite Algebra 2
Honors Chemistry	333	11	Year	1.00	Department Recommendation
Physics	342	12	Year	1.00	Chemistry; co-requisite Pre-Calculus or AP Calculus
Honors Physics	343	12	Year	1.00	Department Recommendation
Anatomy & Physiology	362	11/12	Year	1.00	Biology

## SOCIAL STUDIES DEPARTMENT

<u>Course</u>	<u>Code</u>	<u>Grade</u>	<u>Length</u>	<u>Credit</u>	<u>Pre-requisite</u>
World History	412	9	Year	1.00	None
Honors World History	413	9	Year	1.00	Department recommendation
Geography	416	10-12	Sem.	.50	None
U. S. History	432	11	Year	1.00	None
A.P. U.S. History	433	11	Year	1.00	Department recommendation
U.S. Government	442	12	Sem.	.50	None
Honors U.S. Government	443	12	Sem.	.50	Department Recommendation
General Psychology	446	11-12	Sem.	.50	None
Developmental Psychology**	447	11-12	Sem.	.50	None
PSEOP General Psychology Psy1010	448	12	Sem.	.50	PSEOP Requirement
Sociology	456	11-12	Sem.	.50	None
Parent & Child Development	953	11-12	Sem.	.50	None
Personal Finance	875	12	Sem.	.50	None
Business Law	865	11-12	Sem.	.50	None

\*\* Not offered in 2011-12

## FOREIGN LANGUAGE DEPARTMENT

<u>Course</u>	<u>Code</u>	<u>Grade</u>	<u>Length</u>	<u>Credit</u>	<u>Pre-requisite</u>
French 1	512	9-11	Year	1.00	None
French 2	522	10-12	Year	1.00	Department recommendation
French 3	532	11-12	Year	1.00	Department recommendation
French 4	542	12	Year	1.00	Department recommendation
Spanish 1	516	9-11	Year	1.00	None
Spanish 2	526	10-12	Year	1.00	Department recommendation
Spanish 3	536	11-12	Year	1.00	Department recommendation
Spanish 4	546	12	Year	1.00	Department recommendation

## HEALTH AND PHYSICAL EDUCATION DEPARTMENT

<u>Course</u>	<u>Code</u>	<u>Grade</u>	<u>Length</u>	<u>Credit</u>	<u>Pre-requisite</u>
Health	617	9	Sem.	.50	None
Physical Education 1	618	9	Sem.	.25	None
Physical Education 2	627	10	Sem.	.25	Physical Education 1
Advanced Phys. Education	630	12	Sem.	.25	None

## FINE ARTS DEPARTMENT

<u>Course</u>	<u>Code</u>	<u>Grade</u>	<u>Length</u>	<u>Credit</u>	<u>Pre-requisite</u>
Drawing 1	700	9-12	Sem.	.50	None
Drawing 2	701	10-12	Sem.	.50	Drawing 1 & Painting 1
Painting 1	706	9-12	Sem.	.50	Drawing 1
Painting 2	707	10-12	Sem.	.50	Painting 1 & Drawing 1 & 2
Intermediate Drawing	720	11-12	Sem.	.50	Drawing 1 & 2 & Painting 1 & 2
Portfolio Development	740	12	Sem.	.50	Draw 1& 2, Paint 1& 2, Int. Drawing
Music Appreciation	749	9-12	Sem.	.50	None
Varsity Band	756	9-12	Year	1.00	Department recommendation
Beginning Band	766	9-10	Year	1.00	None
Choir	776	9-10	Sem.	.50	None
Chorale	778	9-12	Year	1.00	Audition
Theater	780	10-12	Sem.	.25	None

## TECHNOLOGY DEPARTMENT

<u>Course</u>	<u>Code</u>	<u>Grade</u>	<u>Length</u>	<u>Credit</u>	<u>Pre-requisite</u>
Computer Literacy 1	828	9	Sem.	.50	None
Computer Literacy 2	830	9	Sem.	.50	Computer Literacy 1

**PLEASE NOTE:** The school reserves the right to cancel any course.

## **THEOLOGY**

The Theology course offerings are structured to cover core elements of the Catholic Faith as determined by the USCCB (*Doctrinal Elements of a Curriculum Framework*), and enable students to determine, with God's help, their calling for life as disciples of Jesus Christ. Core precepts covered include, but are not limited to: Christian identity, Christology, Sacred Scripture, Church history, Liturgy, sacraments, prayer, Christian morality and social justice teaching, vocation exploration and discernment, and comparative religions. Students are required to take a Theology course for each of the four years in attendance at St. Peter Chanel, five days a week.

*There is a service requirement each quarter for each of the four years. Consult the Student Handbook for exact details.*

**012 Theology I: Grade 9** presents students with the theological foundations for healthy, mature, and respectful relationships with themselves, others, and God. Students are challenged to form a Christian identity and worldview, and to develop communication techniques and prayer life. The course presents the example of the life and spirituality of St. Peter Chanel and the mission, history, and traditions of our Marist founders. Instruction in Catholic liturgical and sacramental concepts and practices are used to create a Christian school community that keeps Christ at its center. An appreciation of the value of Sacred Scripture is emphasized using a historical-critical investigative method. Focus will be on understanding God's saving action as incarnated in Jesus, the Word made flesh.

**022 Theology II: Grade 10** continues an examination of the Good News and Jesus' mission of his suffering, death, and resurrection. Students are encouraged to develop a personal relationship with Jesus through this study of the Four Gospels, Acts of the Apostles, and other New Testament writings. The course will present the history of Christianity from the ministry of Jesus to the present day. Various models of the Church will be presented as we explore what being One, Holy, Catholic, and Apostolic means in development of the Church in the United States today.

**032 Theology III: Grade 11** builds upon our Christocentric foundation to focus on the key principles of Catholic social justice and moral teaching. Students will explore the various ways in which they themselves are challenged to live up to these principles of Natural Law and Church teaching in their daily lived experiences. An appreciation of how Gospel values, virtues, and the graces of the sacraments encourage conscience development will be emphasized. Students will identify and explore these issues on a personal, communal, and global scale and how these teachings are rooted in both Sacred Scripture and Tradition.

**042 Theology IV: Grade 12** will provide a continuation in students' journeys of faith as we expose and examine many common secular attitudes as misconceptions and reveal that "Christian" and "successful" adult life are complimentary concepts. Topics covered will prepare students to face the challenges of young adulthood shaping futures that are hopeful, healthy, and full. Lifestyle vocational paths (single, married, vowed religious and ordained ministry) will enhance an appreciation and understanding of God's call to individual discernment. A comparison of other major world religions will also be presented to prepare students for the diversity of life beyond high school. This comparison will be set against the backdrop of Christian apologetics in order to solidify a mature understanding of Church teachings. Students will utilize reflection, prayer, Scripture, and other faith-based experiences that pattern the life of Jesus and St. Peter Chanel to live adult lives of faith, hope, and love.

## ENGLISH

The required English sequence begins in the freshman year with a thorough foundation in writing and language skills. The sophomore program stresses writing and the fundamental knowledge of literary forms and types. The junior and senior years provide a chance for detailed analysis of American and British literature, including the development of the novel. The upper level programs also provide for intensive refinement of written communication skills and continued development of vocabulary skills. Enrollment in this ability-leveled program depends on previous performance, test scores, and faculty recommendation. Both required and elective course offerings in the English program include:

### **112 English 9 / 113 Honors English 9**

The required English sequence begins in freshman year with a thorough foundation in writing and language skills. Students will learn and perfect their use of the writing process. Different modes of writing will be expected. Heavy concentration is placed on vocabulary, reading and grammar with emphasis on usage. Placement is by entrance test scores and previous grades.

### **122 English 10 / 123 Honors English 10**

A full year required course which builds and refines language skills through extensive writing. Students are instructed in the skills needed to take standardized testing in English (PSAT) and prepare students in reading and writing skills to master the OGT. An introduction to literary types and forms is also provided to lay the foundation for the student's remaining two years. Placement is by test scores, grades, and department recommendation.

### **132 English 11 / Honors English 11**

A full year course intended for all juniors, which offers a detailed look at the full scope of American Literature from pre-colonial days through present day. Included is a complete look at American poetry, essay, short story, drama, and novel. Composition skills form the focus of the non-literature component of the course; there is continuing work on vocabulary development. Students are instructed in the skills needed to take standardized testing in English (SAT, ACT). Placement is as above.

### **142 English 12**

A full year required course for all seniors presents a comprehensive picture of the full scope of British Literature from Beowulf to the present day, including poetry, essay, short story, and novel. Further development of composition skills and intensive work on vocabulary complement the literary survey. Students are instructed in the skills needed to take standardized testing in English (SAT, ACT). Placement is as above.

### **180 Advanced Placement English Literature and Composition**

A full year course for qualified seniors, which is designed specifically to prepare students for successful completion of the **required** AP English exam in May of each year. The course presents a comprehensive, collegiate view of major literary works, primarily British, from Beowulf and old English poetry through late twentieth century works. Intensive writing, research, and discussion are required of each student, as is completion of substantial readings. The syllabus for this course has been approved by the College Board. This course is recognized as an official AP course.

**PLEASE NOTE: Honors courses (113, 123, 133, and 143) cover standard material at an accelerated pace and do further enrichment work in writing and research.**

### **153 Journalism not offered in 2011-12**

This semester long elective is open to all students with at least a C+ average in their current English class. Students will learn elements of journalistic writing including effective leads, headlines, news stories, features, sports stories, editorials, and more. Students in this class will also assist in producing the school newspaper, *The Flame*.

### **157 Creative Writing 1**

This semester course offers students instruction in the various forms of writing, with special emphasis on developing content and style. Student will employ the creative writing process for poetry, short story, essay and other assignments. Students must complete frequent writings of varied lengths. This course is open to grades 10-12.

### **158 Creative Writing 2**

This semester course is open to all students, provided that student have already taken Creative Writing 1, a prerequisite for Creative Writing 2. This course will take student writing into a whole new level, offering the opportunity to deal with writing in a more serious and professional manner. This course will discuss the mechanics and ways to get student writing published and out to the public. Students will focus on writing poetry, short stories, plays, and movie scripts.

### **159 Public Speaking**

This is a required semester course for all sophomores designed to enable students to communicate in front of a group with ease and poise. Emphasis will be placed on presentation and organization and grammar skills. Students will present numerous speeches throughout the semester including informative, expository and persuasive speeches. In addition, students will study various speeches for their use of rhetorical devices, create and effectively use visual aids, and develop outlines and works cited. Selected speeches will be recorded to digital media for the purpose of reflection and review. This is a requirement for graduation.

### **160 PSEOP College Composition I Eng 1010**

This semester long elective is offered through Cuyahoga Community College but taught at Chanel in the fall semester, enabling juniors and seniors to gain college credit while still at high school. It does not replace the required junior or senior level English 11 or English 12, but will be taken concurrently. This course involves the study of and practice in principals of good writing at a college-level pace. Course reading material and writing assignments may be thematically organized and will focus on different genres of essay writing. This course enables student to refine academic writing skills in time for ACT, SAT and college essays. **All Post Secondary Education Opportunity conditions and requirements apply.**

### **161 PSEOP College Composition II Eng 1020**

This semester long elective is offered through Cuyahoga Community College but taught at Chanel in the spring semester, enabling juniors to gain college credit while still at high school. It does not replace the required junior or senior level English 11 or English 12, but will be taken concurrently. This course involves the study of and practice in principles of analytical writing, research paper, reading and interpretation of selected literary works at a college-level pace. Course reading materials and writing assignments may be thematically organized. This course enables students to refine research and literary interpretation skills in time for the ACT, SAT, and college essays. **All Post Secondary Education Opportunity conditions and requirements apply.**

**190 PSEOP British Literature I Eng 2350**

This semester long class is offered through Cuyahoga Community College but taught at Chanel in the fall semester, enabling seniors who meet the necessary prerequisites to gain college credit while still at high school. It does fulfill the senior level English 12 require met if taken with PSEOP British Literature 2 in the second semester. This course is a survey of major works of British prose, poetry, and drama from the early period to 1785: The Middle Ages, Renaissance, and Neoclassical Period. **All Post Secondary Education Opportunity conditions and requirements apply.**

**191 PSEOP British Literature II Eng 2360**

This semester long class is offered through Cuyahoga Community College but taught at Chanel in the fall semester, enabling seniors who meet the necessary prerequisites to gain college credit while still at high school. It does fulfill the senior level English 12 require met if taken with PSEOP British Literature 1 in the first semester. This course is a survey of major works of British prose, poetry, and drama from 1785 to the present: The Romantic Period, Victorian Age, and Twentieth Century. **All Post Secondary Education Opportunity conditions and requirements apply.**

**170 PSEOP Fundamentals of Speech Spch 1010**

**All Post Secondary Education Opportunity conditions and requirements apply.**

**165 Television and Broadcasting**

Television and Broadcasting gives students the opportunity to learn and use fundamental techniques in front of and behind the cameras and microphones. Student will write, produce, edit, direct, and act in both individual and group programs. Membership in WCHS is strongly recommended. After school activities will likely be a part of the course, including capturing footage and editing material.

## **MATHEMATICS**

St. Peter Chanel High School currently requires three credits in mathematics for graduation. However, the school strongly suggests that students enroll in a four-year sequence that best satisfies future plans. Math department course offerings include:

### **212 Algebra 1**

A full year study of algebraic concepts and skills including manipulation and graphing of linear equations, inequalities and quadratic equations. Placement in the course is based on ITBS scores and/or Entrance Test scores.

### **213 Honors Algebra 1**

A full year advanced course designed for freshmen offering an in-depth study of mathematical structure requiring students to apply algebraic concepts and skills with ease. Grades in this course are weighted. Placement in the course is based on ITBS scores and/or Entrance Test scores.

### **222 Geometry**

A full year course designed to assist the student with deductive reasoning and abstract thought processes through a study of geometric figures.

### **223 Honors Geometry**

A year long course with a rigorous presentation of the traditional concepts of geometry, and an emphasis on formal proofs. Grades in this course are weighted. A “B” average in Honors Algebra 1 and/or department recommendation is required for placement in this course.

### **232 Algebra 2**

A full year course continuing the skills developed in Algebra 1 with additional study of the real number system and its extension to complex numbers. The course also covers algebraic functions and conic sections.

### **233 Honors Algebra 2 and Trigonometry**

A full year course offered to juniors and selected sophomores that does an accelerated review and extension of algebra concepts, including the properties and graphs of general polynomial functions and quadratic relations. This is followed by an in-depth study of the properties and graphs of the basic transcendental functions (trigonometric, inverse trigonometric, exponential and logarithmic). The course is designed to prepare the student for Advanced Placement Calculus in the following year. Grades in this course are weighted. A “B” average in Honors Geometry and/or department recommendation is required for placement in this course.

### **241 Transition to College Math**

This is a full year course for students who have completed Algebra 2, and whose background is insufficient to take Pre-Calculus. The course emphasizes math, algebra and geometry skills needed to succeed in a college math course. Department recommendation is required for placement in this course.

**242 Pre-Calculus**

This full year course is an extension of College Prep Algebra 2 and Geometry, with more emphasis on formal development of concepts and the graphing. Topics include real and complex solutions to systems of equations and inequalities involving the algebraic (polynomial, rational and radical) and transcendental (logarithmic, trigonometric & exponential) functions, as well as material on the conic sections, sequences and series, and matrices. Students intending to pursue a science or engineering career are strongly encouraged to take this course. A “B” average in College Prep Algebra 2 and Geometry and/or department recommendation are required for placement in this course.

**243 Advanced Placement Calculus**

A full year course dealing with derivatives and integrals of elementary functions and applications of these to graphing and other topics. Grades in this course are weighted. A “B” in Honors Algebra 2/Trig (or Math Analysis) and/or department recommendation are required for placement in this course. Students are recommended to take the AP Calculus exam in May.

## SCIENCE

The science curriculum, like that in mathematics, is designed for students of all ability levels. St. Peter Chanel offers courses that meet requirements for engineering and pre-medical programs, as well as courses that provide a practical or experiential view for the career-bound.

### **312 Survey of Science**

For ninth grade. A full year course that covers topics in earth and space science. Examples are plate tectonics, weathering, and star and planet formation and few simple chemistry and physics topics. Examples are motion of object and chemical reactions.

### **322 Biology** (two labs per week)

Standard Biology is designed as a College Prep course. It will cover the topics of Cell Biology, Taxonomy, Genetics, and Ecology. The course will be taken in the student's sophomore year.

### **323 Honors Biology** (two labs per week)

Honors Biology is designed to cover the same material as the Standard Biology Class but at a faster pace and to a greater level of detail. The course is open to sophomores in good academic standing. Department approval is needed before they enroll in the course.

### **332 Chemistry** (two labs per week)

Standard chemistry is designed as a College Prep course. It will cover the following topics: The Atom and Elements, Naming Chemical Compounds, Chemical Equations, Stoichiometry, Oxidation-Reduction Reactions, Gas Laws, and Nuclear Chemistry.

### **333 Honors Chemistry** (two labs per week)

Honors Chemistry is designed to cover the same material as the Standard Chemistry Class but at a faster pace and to a greater level of detail. The course is designed to follow the Honors Biology course and will be taken by advanced science students in their junior year.

### **342 Physics** (two labs per week)

Physics is designed as a College Prep course and is a natural progression from Biology and Chemistry. The course should cover the topics: Mechanics, Waves (including light and sound waves), Optics, Electricity, and Magnets.

### **343 Honors Physics** (two labs per week)

Honors Physics is designed to cover the same material as the Standard Physics Class but at a faster pace and to a greater level of detail. Additional topics: Thermodynamics, atomic/nuclear. The course is designed to follow the Honors Chemistry course in the senior year.

### **362 Anatomy & Physiology**

This course is designed as an advanced SENIOR level elective to instruct the student about the inner functioning of the human body.

## **SOCIAL STUDIES**

In addition to the required courses of World History, United States History and American Government, the social studies department offers a wide variety of curricular offerings that address global issues and investigate popular theories and fields. All students are encouraged to elect one or more of the specialized courses that include:

### **412 World History / 413 Honors World History**

A study of the important developments in the political, economical, social, and philosophical structures of World History and how these developments have influenced not only the world, but American History in particular.

Honors World History emphasizes critical thinking and historical research on major events and periods from a global perspective. Students selected by entrance exam, standardized testing and elementary school grades

### **416 Geography**

A semester elective course dealing with the physical and social aspects of the earth in order to acquire knowledge of the surroundings in which we live. It is concerned largely with two main streams of related material: the comparison of geographic conditions in different places on earth and the manner in which those conditions are related to human activities and well being. It will also focus on the interdependence of continents from a geographical perspective.

### **432 U.S. History / 433 A.P. U.S. History**

A required year long course that is a comprehensive study of the political and social history of the United States. Through the study of this course, students gain a greater appreciation of the struggles and accomplishments of all Americans, including the diverse ethnic and minority groups, which have made valuable contributions to our country's history. This course is taken in the junior year.

A.P. U.S. History emphasizes critical thinking and research on major events that have helped shape America. Students take the AP US History exam in May.

### **442 American Government / 443 Honors U.S. Government**

This is required semester course in the American system of government. The course includes a comparison of the United States form with other political, social, and economic systems.

Honors U.S. Government emphasizes a study of major constitutional and judicial decisions.

### **446 General Psychology**

A semester elective course introducing the study of human behavior as a science as it deals with the behavior and thinking of organisms, covering learning, personality perception, cognition, and how heredity, environment, motivation, and emotions affect the total behavior of individuals. This course is offered in alternating years.

### **447 Developmental Psychology not offered in 2011-12**

This is a semester elective course studying the human life cycle from birth to adolescence. Areas covered: becoming a person, basic needs, emotions, self-image, dependence, independence. Major emphasis is on the role of heredity and environment in shaping human behavior. This course is offered in alternating years.

### **448 PSEOP General Psychology Psy 1010**

**All Post Secondary Education Opportunity conditions and requirements apply.**

**456 Sociology**

A semester elective which studies human nature, conditions of living and the results of group living. Basic focus: human reaction to and interaction with social and physical environment, sources of tension and harmony within community, races, and culture.

**865 Business Law**

A semester course in the study of The Uniform Commercial Code and its application to individuals and the business world. This course may count as a Social Studies elective. This course is offered to juniors and seniors. There are no pre-requisites for this course.

**875 Personal Finance**

This semester course covers everyday personal finance, e.g. checkbook balancing, budgeting, interest applications, savings accounts, income taxes, stocks and bonds, etc. This course earns one-half credit.

**953 Parenting & Child Development**

During this semester course students will examine the development of children and parents from pregnancy and birth through ages 4 to 6. Emphasis will be placed on intellectual as well as physical development and effective parenting skills.

## **FOREIGN LANGUAGE**

St. Peter Chanel offers programs in two different languages, each of which builds linguistic skills. The department uses a student-centered approach, which encourages the learner to take a more active role in the learning process. Before electing a language sequence, one should carefully examine overall language ability, post-graduation plans, and college requirements. Students may not take the first year of a language in senior year. To fulfill the Board of Regent's three-year language requirement for college, a student must take three years of the same language. If a student is not permitted to go to a second year of a language, s/he must wait one academic year before beginning a different language.

### **512 French 1**

In French I, students will be learning the basics of communicating in the French language using all four communication skills - reading, writing, listening and speaking, as well as aspects of Francophone culture through a year-long portfolio project on a Francophone country of their choice.

### **522 French 2**

In French 2, students will be continuing their development in the French language using all four communication skills - reading, writing, listening and speaking, as well as aspects of Francophone culture. Various projects will be used to enhance studies in the four areas. Departmental approval needed.

### **532 French 3**

In French 3, students will be continuing their study of the French language using all four communication skills – reading, writing, listening and speaking, at a higher level. Aspects of Francophone culture will be studied by the reading of current event articles in French, doing presentations, and improving writing skills by using journals. Departmental approval needed.

### **543 French 4**

Further development of reading, writing, and conversational skills is part of the French 4 curriculum. Students study short stories and novels; write compositions; present papers and give speeches. Advanced grammar points are developed. Integrated into the course is a study of French History in the target language. Departmental approval needed.

### **516 Spanish 1**

The course is designed to introduce students to Spanish vocabulary and basic grammar which will enable them to demonstrate and understand the basic conversational pattern of the language. There is emphasis on the acquisition and use of an active listening and speaking vocabulary with lesser emphasis on writing. A basic understanding and appreciation of Spanish and Spanish- American culture is also taught. The classes are conducted with a variety of approaches. The concepts and vocabulary taught are reinforced through video presentation, songs, role-play, oral and written participation as well as projects.

### **526 Spanish 2**

The course is designed so that students will increase their vocabulary in depth and learn additional grammatical structures. The following verb tenses are included in the second year class: present progressive, preterit, imperfect as well as the familiar commands in both positive and negative form. The students are expected to speak the language, to understand the spoken language, and to read and write in Spanish within the range of the language proficiency they have acquired. By the second semester, the students will be expected to write creative paragraphs and to attempt the 5 paragraph essay. Departmental approval needed.

### **536 Spanish 3**

This course is designed to continue helping students develop linguistic proficiency and cultural sensitivity. The four language skills - listening, speaking, reading, and writing - are practiced at a higher level. Emphasis is placed on the analysis of authentic literature thus challenging students' critical thinking abilities. Students are expected to communicate in the Spanish language. Departmental approval needed.

### **546 Spanish 4**

The course is designed for the student who wants to become fairly proficient in the Spanish language. At this level, authentic literary selections (poems, short stories, plays and excerpts from essays) from Spanish and Latin American authors are read, analyzed, and discussed. The class is conducted in Spanish. The course will review the subjunctive mood, the future tense, the present perfect tense, and learn the conditional, the future perfect and imperfect subjunctive. Emphasis is placed on writing, and it is expected that the students use advanced sentence structures as well as carefully chosen vocabulary to express their ideas. This course will prepare students for college level Spanish. Departmental approval needed.

## **HEALTH AND PHYSICAL EDUCATION**

The Physical Education program at St. Peter Chanel meets state requirements in both health and physical education.

### **617 Health**

A semester course on health care, grooming, disease prevention, alcohol, drugs, tobacco, nutrition, first aid, and other health-related topics; offered opposite the ninth-year physical education program. The course is both a state and school requirement for graduation.

### **618 Physical Education 1**

A semester course on the freshman level offering a survey of basic sports, their rules and methods; experience in organized games and exercise/physical fitness programs required. This course is both a state and school requirement for graduation.

### **627 Physical Education 2**

A semester course on the sophomore level designed to continue the freshman program, with continuation of organized sports and added stress on physical conditioning. This course is a state requirement for graduation.

### **630 Advanced Physical Education**

A 12<sup>th</sup> grade semester course measured on participation and sportsmanship. The student will be able to participate in basketball and volleyball every day the gym is available. If the gym is not available the students will go outside to participate in the team sport, soccer. Advance physical education is only for student who are dedicated to keeping their cardio vascular fitness. A five page paper will be required in the second quarter on topics given to the student. No pre-requisite is required.

## **FINE ARTS**

The Fine Arts program offers the St. Peter Chanel student an opportunity to experiment with and become proficient in graphic or musical arts. A wide variety of courses are offered and the school requires that every student will enroll in at least one fine arts course before graduating. Most colleges require one credit in Fine Arts for acceptance. All visual art courses are semester courses. Music courses are semester and year long classes

### **700 Drawing 1**

Course is offered to all students. It is an introduction of one of the basic elements of art. Students will create artwork using “line” techniques. Students sketch varying subjects, both from still life, life studies and photographs. Students begin to develop hand-eye coordination. Course requires a sketchbook.

### **701 Drawing 2**

This course is offered to upper class students. They experience sketching more complicated subjects (life studies). Students will study human proportions and characteristics. Extreme detail, correct proportions, and solid shading skills will be stressed. Students will experience drawing subjects with varying mediums (pencil, ebony, charcoal, and conte crayons). A sketchbook is required. Pre-Requisites: Drawing 1 & Painting 1

### **706 Painting 1**

Painting is an introduction to another basic element of art color. Students will learn about the color wheel, primary and secondary colors, and values. Students are taught painting techniques and use of different coloring mediums. Pre-Requisite: Drawing 1.

### **707 Painting 2**

Course is designed for students to experience more advance mediums of painting and challenging subjects. Students will use acrylics, watercolors, and oils. Subjects will vary from landscapes to portraits. Different styles of painting will be studied – Renaissance masters, Impressionists, etc. Projects will be much larger and more lifelike. Students should have solid painting skills and talent. Pre-Requisites: Painting 1 & Drawing 1 & 2.

### **720 Intermediate Drawing**

This level of art course is offered to all advanced art students. They are expected to possess the talent required to create solid drawings for this level of experience. Human form and life studies will be the subjects. A sketchbook is required. Pre-Requisite: Drawing 1 & 2 and Painting 1 & 2

### **740 Portfolio Development**

This course is offered to seniors only. This semester course will allow students to organize their artwork (approximately 12-20 works that best represent their visual art talent). Portfolio should include artwork from previous art courses, plus life studies (drawings or paintings of objects in their environment). A portfolio is submitted as part of the admissions process for college. Some artwork will be in slide form. Students are responsible to purchase a portfolio carrying case. All projects are done for the completion of the portfolio. This course is offered during the 1<sup>st</sup> semester of the student’s senior year. Pre-Requisites: Drawing 1, 2, Painting 1, 2 & Intermediate Drawing;

### **749 Music Appreciation**

Music Appreciation is a semester course designed to enlighten students about how music has shaped and affected our society. Topics covered will include music theory, music history, and current issues in music. Class work is combination of lecture, research and hands on projects. Musical skills or knowledge is not required for the class, but students should have the interest to learn it.

**756 Varsity Band**

A year long course for intermediate and advanced level students with a regular meeting during the school day. It does not conflict with other activities, such as sports, which students may wish to join. Several concerts are given per year for parents and friends. The band performs at Firebird football and basketball games, from which performances the participating athletes are excused. During late August the marching band will begin rehearsals for the football season. Instruments include piccolo, flute, oboe, bassoon, clarinet, bass clarinet, saxophone, trumpet, cornet, horn, trombone, baritone, tuba, sousaphone and percussion.

**766 Beginning Band**

A year long course strictly for beginners. No previous music experience is expected. Class has a regular meeting during the school day. Students learn to read music and play any band instrument of their choice. Students are requested to furnish their own instruments, although a minimal number are available for rental. By the end of the course beginning band members are prepared to join the varsity band.

**776 Choir (Vocal Music)**

This semester course is designed to train students in solo, group and harmony singing. Students learn to read music and to sing the given pitch. No audition or musical experience is required but a strong commitment and good attitude towards music is a must for this class.

**778 Chorale (Vocal Music)**

A year long course offers advanced three and four part arrangements with emphasis on advanced music reading and vocal production. Music experience preferred by not required taking this course. Students must have a strong commitment and good attitude towards music. Both rehearsal and performance time may be required outside of the regular school day. Chorale will sing at masses and participate in two concerts per school year with possible performance at civic events. Current music teacher's signature and an audition are required to take this course.

**780 Theater**

The purpose of this course will be to provide students with the basic concepts and skills involved in theatre. Acting techniques, performance skills and terms, and hands-on experiences will be utilized enabling students to gain an appreciation for and some mastery in the craft of acting. Students will also be introduced to the behind the scenes aspects of theatre; set and costume design/construction, properties, makeup effects, set decoration, lighting, sound, and special effects will be presented. This course is open to any student beginning at the sophomore level.

## TECHNOLOGY

St. Peter Chanel's business program offers training in both vocational and management oriented skills. St. Peter Chanel requires a semester course in Computer Literacy. for all ninth grade students. Other departmental courses are elective, but the school suggests that students enroll in one or more of these courses.

### **828 Computer Literacy 1**

A semester long course that offers a basic introduction to internet exploration, network design, and the Microsoft Office suite of programs.

This course is required for graduation and should be taken in the freshman year.

### **830 Computer Literacy 2**

A semester long course that offers a more in-depth examination of Microsoft Excel, Publisher, Adobe Photoshop, and Dream Weaver. Students will learn basic digital photo editing skills and web site design principles. Students with digital cameras are strongly encouraged to bring their cameras to class and make use of their own resources. This course is an excellent compliment for students involved with *The Flame, Invictus*, or *WCHS*. Prerequisites: Computer Literacy I and instructor approval.

### **ONLINE CLASSES**

Online classes are being offered through all six diocesan high schools using a website called Schoology. If you wish to sign up for an online class, make sure you are a self-starter with no history of failing grades. Online classes do count in your GPA and must be taken as seriously as any other class you are taking face to face. Online work can be done at home or at school during a study hall.

<u>Course</u>	<u>Code</u>	<u>Grade</u>	<u>Length</u>	<u>Credit</u>	<u>Pre-requisite</u>
Contemporary Affairs ONLINE Chanel	SC 457	11-12	Sem.	.50	None
Creative Writing 1 ONLINE Chanel	SC 155	10-12	Sem.	.50	C+ in Current English Class
Personal Finance I ONLINE Central Catholic	SC876	11, 12	Sem.	.50	
Personal Finance II ONLINE Central Catholic	SC877	11, 12	Sem.	.50	Personal Finance I ONLINE
Media Literacy ONLINE Elyria Catholic	SC831	10, 11, 12	Sem.	.50	
Holocaust, Genocide ONLINE Holy Name	SC450	10, 11, 12	Sem.	.50	
Accounting I ONLINE Lake Catholic	SC836	10, 11, 12	Year	1.00	
Environmental Science ONLINE VASJ	SC300	11, 12	Sem.	.50	
Computer Programming ONLINE VASJ	SC825	11, 12	Year	1.00	Access to JAVA SDK and IDE products running on a high-end computer with high-speed internet and the Windows 7 operating system; Basic understanding of Algebra II principles and techniques and algorithm formulation skills.

**SC457 Contemporary Affairs – Chanel**

Teacher: Hugh McMahan  
hmcMahon@stpeterchanel.com

A semester elective course examining major world events and issues with investigation into their significance and implications. The course focuses on: 1) an examination of current world events and issues in a historical context, including cause and effect relationships; 2) a study of political systems, past and present, especially in developing countries; 3) an analysis of global interdependence.

**SC155 Creative Writing 1 – Chanel**

Teacher: Joe Rock  
jrock@stpeterchanel.com

This semester course offers students instruction in the various forms of writing, with special emphasis on developing content and style. Student will employ the creative writing process for poetry, short story, essay and other assignments. Students must complete frequent writings of varied lengths. This course is open to grades 10-12.

**SC876 Personal Finance I - Semester 1 Central Catholic**

Teacher: Carol Troxell  
ctroxell@centralcatholic.org

This course informs students of their financial responsibilities as citizens, students, family members, consumers, and active participants in the business world. Major topics include financial planning, career planning, budgeting, consumer protection, legal protection, checking and savings accounts, consumer credit, mortgages, and fundamentals of investing.

**SC877 Personal Finance II – Semester 2 Central Catholic**

Teacher: Carol Troxell  
ctroxell@centralcatholic.org

This course informs students of their financial responsibilities as citizens, students, family members, consumers, and active participants in the business world. Major topics include stocks, income tax, bonds and mutual funds, real estate, insurance, and retirement planning.

**SC831 Media Literacy - Elyria Catholic**

Teacher: Kristen Frey  
frey@elyriacatholic.com

This course will provide a broad overview of information literacy concepts. It will introduce skills for evaluating all types of resources and introduce principles and information on copyright, plagiarism, APA and MLA formatting and fair use.

This course will also focus on how to select the best and most relevant information possible in the learning process and recognize the need for information. The students will learn to locate it using various information technologies and infrastructures, organize it and apply it in productive ways. It will include sections on introducing the use and navigation of subject-specific databases and websites.

This course will also cover a brief history of information and how information is changing. It will examine the way we use information today and how this effects our work, culture and creativity.

### **SC450 Holocaust, Genocide: Prejudice and Propaganda - Holy Name**

Teacher: Joe Ehrbar  
jehrbar@holynamehs.com

This course offers a look a genocide as the result of prejudice and propaganda, with an emphasis on similarities in causes, conditions and consequences for various cultures, races and groups. As Christians, to what response and moral obligations are we called?

The history of world offers a wide variety of cases to be examined: Anti-Semitism and the Holocaust, the American Indian, the Kurds, Ukraine, Armenia, Cambodia, Rowanda, Darfur, Congo. This course asks the questions, “Why” and “What can we do?”

### **SC836 Accounting I - Lake Catholic**

Teacher: Mike DeSantis  
mdesantis@lakecatholic.org

This will be a year-long course where the students will learn record-keeping of small businesses through the teaching of the accounting cycle. Students will learn how to use journals, ledgers, and worksheets to prepare financial statements.

This course is recommended for students planning to major in business in college. The workbook is internet based. Students will have access to it from any computer with internet access.

All work will be graded immediately at the due date and the students will receive immediate feedback on their work.

### **SC300 Environmental Science - Villa Angela-St. Joseph**

Teacher: Andrea Ziegler  
aziegler@vasj.com

Environmental Science is an interdisciplinary study that builds upon knowledge of biology, chemistry, physics and geology in order to explain how the environment operates. Our environment includes all living and non-living things with which an organism interacts.

Topics taught correspond to chapters from “Pearson: Environmental Science”

Students will be asked to look for environmental problems present in their schools, home, and/or communities. Eventually, a student or small group of students would select a specific problem that they would like to solve.

### **SC825 Computer Programming (774C Java) - Villa Angela-St. Joseph**

Teacher: Steve Wallace  
swallace@vasj.com

Create your own software application programs for the web.

The JAVA computer programming course prepares students to design, develop, and test software program algorithms. Students use the JAVA programming language to develop both structured design programming skills and object-oriented design programming skills by following the objectives of the AP Computer Science curriculum.

The course allows students to investigate the JAVA language and computer programming techniques before graduation for enrichment or for preparation for more advanced studies in the computer science area.

Prerequisites: Access to JAVA SDK and IDE products running on a high-end computer with high-speed internet and the Windows 7 operating system; Basic understanding of Algebra II principles and techniques and algorithm formulation skills.

