



# **Powers Catholic High School**

## **2011-2012 Curriculum Guide**

POWERS CATHOLIC HIGH SCHOOL  
CURRICULUM  
LIST OF CLASSES

GRADUATION REQUIREMENTS  
2011- 2012

All Powers students are required to take six classes. One credit is given for each semester class. In order to graduate from Powers a student must have

1. completed four years of high school
2. taken and passed 46 credits
3. completed all of the required classes
4. been in attendance at Powers during the last semester of his/her senior year
5. completed the Christian service requirement.

Required Classes for Graduation

Theology 4 years (one credit for each semester in attendance)

English 4 years

Social Studies

World History or

World Geography 1 year

American History 1 year

Government 1 semester

Elective 1 semester

\*Economics is strongly recommended for Juniors taking the Michigan Merit Exam.

Mathematics 4 Years

Science

(Laboratory Science) 3 Years

Physical Education 1 year (2 years of band or orchestra will replace this requirement)  
and Health

These are the minimum requirements for graduation from Powers Catholic. All students are recommended to take academic classes beyond these minimum requirements. (There are several exceptions to these requirements for transfer students and Skill Center students.)

Christian Service Requirement

Every student will be required to perform five hours of service for each semester in attendance. This service is to be done outside of regular school hours. It is to be voluntary, without pay, and with no classroom grade or mark given. A broad range of service activities will be acceptable. No diploma will be granted until a student completes the required service hours.

## GRADUATION RECOMMENDATIONS

2011 - 2012

Because traditionally 95-100% of Powers graduates plan to attend college, we recommend that our students consider the following:

### REQUIREMENTS/RECOMMENDATIONS OF THE PRESIDENTS' COUNCIL, STATE UNIVERSITIES OF MICHIGAN, FOR COLLEGE ADMISSIONS.\*

English	4 years required
Mathematics	4 years required
Science	3 years required
Social Studies	3 years required
Foreign Language	3 years strongly recommended (Both the University of Michigan, Ann Arbor, College of Literature, Science, and the Arts [LSA] and Michigan State University require two years of the same foreign language.)
Fine and Performing Arts	2 years recommended

In addition to these requirements and recommendations, Powers Catholic also recommends:

Public Speaking	1 Semester (in addition to four years of writing and literature classes)
Drafting	1 Year (for students who are interested in engineering, computers, or technical careers)
Business Tech I	1 Semester (for students who would like to enhance their computer literacy)

### SEVEN CLASSES

Some students will benefit from taking seven classes. College prep students who are proficient in English (standardized test scores above the 75<sup>th</sup> percentile) may wish to consider taking four years of French or Spanish. Colleges consider a four year language program “a plus” on a student’s application. Students interested in four years of a foreign language will need to take seven classes as a freshman. Other students may find it beneficial to pursue recommended classes in the fine arts, drafting, or computers, courses which enhance a student’s education without too much additional homework. Students with good work habits have been successful in taking seven classes as well as participating in extra-curricular activities.

### STUDY HALL

Taking a Study hall can be an educational advantage to some students. Students can use this time to study, use the library, meet with an NHS tutor, make up a test, see a counselor, or take care of business without interrupting class time. Students who are involved in sports or other extra-curricular activities or who work outside of school may find a Study Hall especially helpful. In general, it is more important for a student to do well in six classes than to take seven.

Students are not allowed to “drop” classes, even seventh hour classes, after the second week of the semester.

\*The requirements for NCAA Eligibility are similar. Check with a counselor for specific information.

**Course List 2011-2012**

	<u>No.</u>	<u>Course</u>	<u>Length</u>	<u>Level of Diff.</u>	<u>OPO</u>	<u>Grade</u>
<b><u>English</u></b>	001/002	Communicatin Skills I	Year	Basic		9
	003/04	Communication Skills	Year	Average		9
	005/06	Communication Skills A	Year	Advanced (1.08)		9
	007/08	Honors Humanities English 9	Year	Advanced (1.1)		9
	011/012	Amer. Lit. Lang. I	Year	Basic		10
	013/014	Amer. Lit. Lang.	Year	Average		10
	015/016	Amer. Lit. Lang A	Year	Advanced (1.08)		10
	017/018	Honors Humanities English 10	Year	Advanced (1.1)		10
	035	Public Speaking	Semester	Average		10-12
	045	Forensics	Semester	Average to Advanced		9-12
	055	Creative Writing	Semester	Average		11,12
	061/62	Eng. Comp & Lit I	Year	Basic		11
	063/64	Eng. Comp & Lit	Year	Average		11
	071/72	Adv.Comp/Gr. World Authors	Year	Advanced (1.1)		11
	081/82	Senior English Seminar I	Year	Basic		12
	083/84	Senior English Seminar	Year	Average		12
	091/92	AP English Literature	Year	Advanced (1.1)		12

With the exception of Reading Techniques 1, these courses may be applied toward the four year English requirement.

<b><u>Language</u></b>	101/02	French I	Year	Average		9-12
	111/112	French II	Year	Average		9-12
	121/22	French III	Year	Advanced (1.1)		9-12
	131/32	French IV	Year	Advanced (1.1)		9-12
	141/42	Spanish I	Year	Average		9-12
	151/52	Spanish II	Year	Average		9-12
	161/62	Spanish III	Year	Advanced (1.1)		9-12
	171/72	Spanish IV	Year	Advanced (1.1)		9-12

<b><u>Social Studies</u></b>	201/02	World Geography	Year	Basic to Average		9
	203/04	World History	Year	Average		9
	213/214	Honors Humanities 9	Year	Advanced (1.1)		9
	221/22	Basic American History	Year	Basic		10
	231/32	American History	Year	Average		10
	233/234	Honors Humanities	Year	Advanced (1.1)		10
	235	Michigan History	Semester	Average		11,12
	241	Basic Government	Semester	Basic		11
	251/52	Government	Semester	Average		11
	255	Economics	Semester	Average		11,12
	261/62	AP Government/Economics	Year	Advanced (1.1)		11
	265	American Foundations	Semester	Average		11,12
	271/72	AP European History	Year	Advanced (1.1)		11,12
	275	Psychology	Semester	Average		11,12
276	AP Psychology	Semester	Advanced (1.1)		11,12	

<b><u>Mathematics</u></b>	301/02	Introduction to Algebra/Geo I	Year	Basic		9
	303/04	Introduction to Algebra/Geo II	Year	Basic		10
	310/11	Algebra 1.1	Year	Basic to Average		9,10
	312/13	Algebra 1.2	Year	Basic to Average		10,11
	321/322	Elementary Geometry	Year	Basic to Average		11,12
	331/332	Algebra I	Year	Average		9
	333/334	Algebra I A	Year	Advanced (1.1)		9
	341/342	Geometry	Year	Average		10
	343/344	Geometry A	Year	Advanced (1.1)		9,10
	354/55	Integrated Alg II/Trig	Year	Basic		11,12
	361/62	Algebra II	Year	Average		11
	363/64	Algebra II A	Year	Advanced (1.1)		10,11
	371	Math Topics	Semester (1)	Average		12

372	Trigonometry	Semester (2)	Average	12
381/82	Pre-Calculus	Year	Advanced(1.1)	11,12
391/92	AP Calculus	Year	Advanced (1.1)	12

\*These classes do not apply toward the two year math requirement.

### **Science**

403	Biology Concepts I	Semester	Basic	9
404	Physical Science Concepts I	Semester	Basic	9
405	Science I (Bio.)	Semester	Average	9
406	Science I (P.S.)	Semester	Average	9
407	Science I A (Bio.)	Semester	Advanced (1.1)	9
408	Science I A (P.S.)	Semester	Advanced (1.1)	9
413	Biology Concepts II	Semester	Basic	10
414	Physical Science Concepts II	Semester	Basic	10
415	Science II (Bio.)	Semester	Average	10
416	Science II (P.S.)	Semester	Average	10
417	Science II A (Bio.)	Semester	Advanced (1.1)	10
418	Science II A (P.S.)	Semester	Advanced (1.1)	10
423	Biology Concepts III	Semester	Basic	11,12
424	Physical Science Concepts III	Semester	Basic	11,12
425	Science III (Bio.)	Semester	Average	11
426	Science III (P.S.)	Semester	Average	11
427	Science III A (Bio.)	Semester	Advanced (1.1)	11
428	Science III A (P.S.)	Semester	Advanced (1.1)	11
433	Earth Science	Semester	Average	12
434	Environmental Science	Semester	Average	12
441/42	Anatomy and Physiology	Year	Average	12
451/52	Advanced Physics	Year	Advanced (1.1)	12
461/62	Advanced Chemistry	Year	Advanced (1.1)	12

Students must complete one semester of physical science and one semester of biology before moving to the next level of science.

### **Fine/Applied Arts**

501/02	Band	Year	Average	9-12
511/12	Orchestra	Year	Average	9-12
521/22	Choir	Year	Average	9-12
541	Art I	Semester (1)	Average	9-12
542	Art II	Semester (2)	Average	9-12
543	Art III	Semester	Average	10-12
544	Art IV	Semester	Advanced	10-12
551/52	Advanced Art	Semester	Advanced	11-12
555	Ceramics	Semester	Average	10-12
561/62	AP Studio Art	Year	Advanced	11-12
565	Intro to Drama	Semester (1)	Average	10-12
566	Intro to Acting	Semester (2)	Average	10-12
571/72	Yearbook	Year	Average(with permission)	10-12
585	Fine Arts Appreciation	Semester	Average	10-12
711/12	Drafting I	Year	Average	9-12
731/32	Mechanical Drawing II	Year	Average	10-12
741/42	Mechanical Drawing III	Year	Advanced	11-12
761/62	Architectural Drawing I	Year	Average	10-12
771/72	Architectural Drawing II	Year	Average	10-12

Instrumental music students should be aware that the Flint Institute of Music requires that students participate in their school's instrumental classes as a requirement for enrolling in the FIM music program.

<b><u>Business</u></b>	601	Business and Technology I	Semester	Average	9-12
	602	Business and Technology II	Semester	Average	9-12
	611	Business and Technology III	Semester	Average	10-12
	612	Business and Technology IV	Semester	Average	10-12
	615	Introduction to Marketing	Semester	Average	11-12
	621/622	Accounting	Year	Average	11-12

<b><u>Health/Phys Educ</u></b>	801/02	Physical Education	Year	Average	9
	811/12	Sports Skills	Semester	Average	10-12
	821/22	Health	Semester	Average	11-12
	825	Strength and Conditioning	Semester	Average	10-12
	831/832	PE Assistant	Semester	Average	11-12

<b><u>Vocational/ Miscellaneous</u></b>	961/62	Office Experience	Semester	Average	12
	981/82	Guidance Office	Semester	Average	12
	985	Library Assistant	Semester	Average	12
	991/92	Teacher Assistant	Semester	Average	12
	994	Mentoring Experience	Semester	Average	12
	995	Technical Assistant	Semester	Average	12

Sophomores or juniors may elect to be an Assistant as a seventh class only.

<b><u>Theology</u></b>	901/02	Religion 9	Year	Average	9
	903/904	Honors Humanities 9	Year	Advanced (1.1)	9
	911/12	Religion 10	Year	Average	10
	913/914	Honors Humanities 10	Year	Advanced (1.1)	10
	921/22	Religion 11	Year	Average	11
	931/32	Religion 12	Year	Average	12

## BUSINESS

601	Pre-requisite: None	Semester: 1 credit
Business Technology I	Grade level: 9,10,11,12	Program: Average

This class is designed for students who want to explore the world of computers and be prepared for the demands of a changing technological world. To start, the students will learn the keyboard by using the computer program, "MicroType." Since this class is a self-directed class, the students move at their own pace, having a certain number of required assignments that need to be completed by the end of each quarter. Students will learn the following: file management, Microsoft Office Word and PowerPoint, e-mails and attachments (as well as Internet etiquette), and navigation on the Internet.

602	Pre-requisite: Business Tech I	Semester: 1 credit
Business Technology II	(C or higher)	Program: Average
	Grade level: 9,10,11,12	

In this class, students will continue to explore the world of computers by learning more advanced topics in Microsoft Word and PowerPoint. This class is self-directed. Applying skills learned in Business Technology I, students will design their own resume and application letters. Students will also use Microsoft PowerPoint to create a music PowerPoint presentation. Another area of interest will be developing skills in the areas of scanners and digital cameras. Students will be expected to design a portfolio of all their pictures by using the software programs CamediaMaster and Print Shop. Basics of Excel, one of the primary business tools, will be introduced in this class.

611	Pre-requisite: Business Tech II	Semester: 1 credit
Business Technology III	Grade level: 10, 11, 12	Program: Average

In Tech III, students will refine their skills in Microsoft Word, PowerPoint, and Excel by doing various projects that will prepare them for the skills they will need for their professional careers. This class is self-directed. Students will also be introduced to web page design through the use of Microsoft FrontPage. Students will learn how to set up web sites for businesses following proper web page guidelines. They will incorporate their previous knowledge of scanners and digital cameras to enhance their abilities in web page design. Students will also be introduced to the data based software program, Microsoft Access.

612	Pre-requisite: Business Tech III	Semester: 1 credit
Business Technology IV	Grade level: 10, 11, 12	Program: Average

Students will continue to explore the various uses of all the programs learned in prior Tech classes (Microsoft Word, PowerPoint, Excel and Access, as well as digital cameras and scanners.) This is a self-directed class. The overall goal of this class is to teach students how to *intermingle* all of the Microsoft programs studied in the previous classes. They will continue working on web page design as well as increasing their digital camera picture portfolios. They will be also introduced to Speech recognition on the computer. New software that will be introduced in this class is Microsoft Publisher. This program allows students to create and design various types of cards, flyers, banners, business cards and letterheads, and more.

615  
Marketing

Pre-requisite: None  
Grade level: 11, 12

Semester: 1 credit  
Program: Average

This course is designed to explore the world of business through the exciting, growing career opportunities available in the areas of marketing, sports and entertainment. Through the use of computers and various other marketing tools, students will learn about the various strategies as well as effective ethical marketing practices. Students will contract marketing plans, explore product lines and learn about pricing and licensing.

621/22  
Accounting

Pre-requisite: None  
Grade level: 11, 12

Year: 2 credits  
Program: Average

This course is designed to help students understand how money works in a business. This class is for Juniors and Seniors who are thinking about majoring or minoring in Accounting in college, or for students who are planning to own their own business in the future. Students will learn accounting principles and terminology as well as develop an understanding of processing financial data and daily transactions. They will also be introduced to Accounting programs such as automated Accounting and Microsoft Excel.

## DRAFTING

711/12	Pre-requisite: None	Year: 2 credits
Drafting I	Grade level: 9,10,11,12	Program: Average

This course is designed to teach the basic techniques of mechanical drawing and the basics of CAD (computer aided drawing). The skills developed provide a good foundation for advanced drawing courses in engineering, graphic design, architecture and interior design. The drawings are presented in such a manner as to give experience both in drawing the problem and supplying additional information. Skills are developed in sketching, lettering, geometric construction, and different areas of mechanical drawing.

731/32	Pre-requisite: Drafting I	Year: 2 credits
Mechanical Drawing II	Grade level: 10,11,12	Program: Average

Mechanical Drawing II students work on mechanical or technical drawings. This course is a short review of the basic procedures covered in Drafting I. Additional drawings are developed in the following areas: pictorial (isometric, oblique, and perspective), welding symbols, threads and fasteners, and detailed working drawings. An introduction to electrical plans and architectural floor plans are covered. Drawings are converted to CAD, and new drawings are completed entirely in CAD.

741/42	Pre-requisite: Mechanical II	Year: 2 credits
Mechanical Drawing III	Drawing, Teacher Approval	Program: Advanced
	Grade level: 11,12	

Mechanical Drawing III students work on mechanical drawings or original design problems. This course focuses on various projects and assignments given to students as a challenge in interpretation and application of the knowledge acquired in Drafting I and Mechanical Drawing II. Work is done independently and on an individual basis. This student is encouraged to develop an original design and make a three-dimensional model. This work may be completed on drafting board or CAD.

761/62	Pre-requisite: Drafting I	Year: 2 credits
Architectural Drawing I	Grade level: 10,11,12	Program: Advanced

This course involves the student in designing a complete set of architectural working drawings for a cabin or summer home to include: floor plan, landscape plot plan, elevations, foundation plan, and wall section. Model building is introduced. This course helps develop the necessary technical skills to communicate architectural ideas in an understandable, efficient, and accurate manner. CAD is also used and developed for architectural working drawings.

771/72	Pre-requisite: Architectural	Year: 2 credits
Architectural Drawing II	Drawing I, Teacher Approval	Program: Advanced
	Grade 11,12	

The architectural skills developed in Architectural Drawing I are a foundation for this class. The student develops a set of working drawings for a dream home, commercial design, or special project. Design work in rendering, perspective, model building and produce design are encouraged. All work is done independently and on an individualized basis. This work may be completed on drafting board or CAD.

## ENGLISH

The English Department of Powers Catholic High School offers a curriculum designed to meet the individual student's needs and interests in all areas of communication. Skills in reading for understanding and critical appreciation, in writing correctly and imaginatively, in creative oral and dramatic expression are emphasized. Upon graduation from Powers, students should have the necessary skills in reading, writing, and speaking to enable them to live a life that is fulfilling to themselves and our society.

001/02	Pre-requisite: None	Year: 2 credits
Communication Skills I	Grade level: 9	Program: Basic

This full year course is designed to develop the students' public speaking skills, their ability to read major forms of literature with understanding and appreciation, and their ability to write complete, correct sentences and fully-developed, organized paragraphs. Units on grammar, vocabulary, and use of the library will be included. This class will move more slowly than the regular sections, will read less difficult material, and will focus on remedial needs.

003/04	Pre-requisite: None	Year: 2 credits
005/06	Grade level: 9	Program: Average and Advanced
Communications Skills		

This full year course is designed to develop the students' public speaking skills, their ability to read major forms of world literature with understanding and appreciation, and their ability to write complete, correct sentences and fully-developed, organized paragraphs. Units on grammar, vocabulary and use of the library will be included. The advanced class (002 A) will cover more material in greater depth.

007/08	Pre-requisite: Application and Acceptance	Year: 2 credits
Honors Humanities English	Grade level: 9	Program: Advanced

Honors Humanites (HH) is an honors course designed to cover the contents of freshman theology, English, and world history in an integrated manner. The class will be composed of approximately twenty-five students selected by a faculty committee. In HH9 the students will become acquainted with the broad outlines and changing patterns of world religions, literature and cultures. The students in HH will be expected to read classic works of world literature, to write clearly and correctly, to exercise critical thinking skills, and to function as highly motivated, independent learners. This course is the first in a two year sequence.

011/12	Pre-requisite: None	Year:	2 credits
Amer. Literature & Language I	Grade level: 10	Program:	Basic

In this class students will learn to read major forms of American literature with understanding and appreciation and to be aware of American culture in various forms and to see its relevance in their own lives. They will also develop the ability to write fully-developed, organized paragraphs, and they will be introduced to writing an expository essay. The course will also include units on grammar, vocabulary and the use of the library. This class will move more slowly than the regular section, will read less difficult material, and will focus on remedial needs.

013/14	Pre-requisite: None	Year:	2 credits
Amer. Literature & Language	Grade level: 10	Program:	Average and Advanced

015/16A  
Amer. Literature &  
Language A

In this class students will increase their appreciation and understanding of American Literature (novels, stories, essays, poems, and plays). From early-to-modern day America, students will encounter the rich literary landscape of our culture. Students will also gain practice and experience in writing paragraphs and essays. Grammar, vocabulary, and research via the library and the internet will be covered. The advanced section (015/16A) will cover more material in greater depth and be held to higher standards..

017/18	Pre-requisite: Application and	Year:	2 credits
Honors Humanities	Acceptance	Program:	Advanced
English 10	Grade level: 10		

Honors Humanities (HH) is an honors course designed to cover the contents of sophomore theology, English, and American history in an integrated manner. The class consists of a three hour time block with a different teacher each hour. The class will be composed of approximately twenty-five students selected by a faculty committee. In HH 10 the students will increase their knowledge and understanding of religion and the Catholic Church in America, American literature, and American history. The students in HH 10 will be expected to read classic works of American literature, to write clearly and correctly, to exercise critical thinking skills, and to function as highly motivated, independent learners. This course is the second in a two year sequence.

035	Pre-requisite: None	Semester: 1 credit
Public Speaking	Grade level: 10,11,12	Program: Average

This course is designed to teach students the basic fundamentals of communication, both in speaking and listening. Students should develop confidence and comfort in front of an audience. Instruction will be given in the preparation of different types of speeches. Speeches will include informative, demonstrative, persuasive, impromptu as well as debate and speech for special occasions. There will be a focus on elements of proper delivery, including microphone use. How to improve listening skills will be addressed. Each student will also participate in group discussions.

045	Pre-requisite: None	Semester: 1 credit
Forensics	Grade level: 10,11,12	Program: Average to Advanced

Forensics is a course designed to prepare the student to participate in various speech activities. The student will be required to prepare selected speeches for classroom presentation. Students will master speeches in the following areas: informative speaking, original oratory, broadcasting, serious and humorous interpretations, extemporaneous and impromptu speaking, story telling, and multiple presentations. Students will also be given an opportunity to compete with other schools in tournaments in the spring if they so desire.

055	Pre-requisite: None	Semester: 1 credit
Creative Writing	Grade level: 11,12	Program: Average

Creative Writing offers students the opportunity to pursue writing with imagination. This workshop emphasizes practicing the writing process: pre-writing, drafting, revising, proofreading, and rewriting. Students write essays, poems, song lyrics, stories, character sketches - almost anything - because all writing demands creative thinking.

061/62	Pre-requisite: None	Semester: 1 credit
English Comp. I & Literature	Grade level:	Program: Basic

This course is designed to improve the writing skills of the accelerated English student through practice in various forms of expository writing, including the persuasive essay. A review of grammar, usage, mechanics, and vocabulary will be included. In addition, students will study the major trends in literature around the world using novels, short stories, and poetry.

063/64	Pre-requisite:	Semester: 1 credit
English Comp.& Literature	Grade level:	Program: Average

This course is designed to improve the writing skills of the college bound student through practice in various forms of expository writing, including the persuasive essay. A review of grammar, usage, mechanics, and vocabulary will be included. In addition, students will study the major trends in literature around the world using novels, short stories, and poetry.

071/72	Pre-requisite: Amer. Lit. and	Year:	2 credits
Adv. Composition/ Great World Authors	Grade level: 11 Lang. A	Program:	Advanced

This course is designed to improve the writing skills of the accelerated English student through practice in various forms of expository writing, rhetorical writing, and including a research paper using MLA format. A review of grammar, usage, mechanics and vocabulary will be included. In addition, students will study the major trends in literature around the world. Authors from the ancients to the contemporaries will be studied through analysis and discussion. Oral reports, essays and other approved projects will be assigned.

081/82  
Senior English Seminar I-Basic Level

This course is designed for the 12<sup>th</sup> grade student who needs to enhance English skills as he/she exits high school and transitions to higher education. Included in the course are grammar, vocabulary, and writing. Various essays will be written (reaction, persuasive, definition, etc.). Literature appreciation and analysis includes several periods (Medieval, Renaissance, Romantic, early-20th century, and Modern). At least two books will be presented (Night and Fahrenheit 451). Objectives include: improving reading, writing, and study skills. In this course, the instructor attempts to “meet the students at their level” in order to build their confidence and prepare them for life after high school.

083/84  
Senior English Seminar

This course is designed as a college preparatory English class for seniors who are not taking Advanced Placement English. Students are required to review such content as grammar, essay writing, and vocabulary use. Assignments given will require group work, class participation, and independent study. Several genres of essay writing will be introduced as well as the development and execution of a research paper. Students will learn various elements of fiction and apply them to several works of World literature, focusing on universal themes and ideas with which all students can relate.

091/92	Pre-requisite: Advanced Comp.	Year:	2 credits
Advanced Placement Eng.	Grade level: 12	Program:	Advanced

Advanced Placement English is designed for students who have maintained a 3.0 average in English and are preparing to enter college. Students will be expected to read and analyze selected genre from both English and American classical literature. Students will learn and practice various writing techniques in order to develop precise analytical skills. Recitation and participation in class are required. The course will prepare the student for Advanced Placement examination in English offered in the spring. College credit and advanced placement status are offered by many colleges to students who do well on that examination.

## **FINE AND APPLIED ARTS**

Fine and applied arts are a creative means by which people define and communicate their vision of the world. The arts are a record of diverse cultures and how these cultures have developed over time.

For the individual, the arts prove a channel for self-expression, appreciation, critical judgment, imagination, creative work, and self-confidence. For the college entrant, preparation in the arts will be valuable as it fosters flexible ways of thinking and disciplined effort. For all students, the arts will permanently enhance the quality of their lives.

585	Pre-requisite: None	Semester: 1 credit
Fine Arts Appreciation	Grade level: 10-12	Program: Average

In this course students will learn how to experience the fine arts, to appreciate a wide variety of artistic expression, and to develop an aesthetic sense. One quarter will focus on the elements and principles of design and the historical development of painting, sculpture, and architecture. The other quarter will focus on the elements and principles of music and the historical development of instrumental and vocal music.

## **INSTRUMENTAL MUSIC**

501/02	Pre-requisite: None	Year: 2 credits
Band	Grade level: 9,10,11,12	Program: Average

The Wind Ensemble class will focus on the development of intermediate to advanced performance skills. In the fall Wind Ensemble students will present half-time shows at all home football games. Students will be expected to attend Band Camp, which will be held during the summer, in preparation for marching season. The Wind Ensemble will present several concerts through out the year. Participation in Solo and Ensemble Festival and District Band Festival is required. The Flint Institute of Music requires that all students participating in their programs take band or orchestra in their home schools. Two years of band will replace the Physical Education requirement.

511/12	Pre-requisite: Knowledge of Basics	Year: 2 credits
Orchestra	Grade level: 9,10,11,12	Program: Average

This course is offered to students who have studied string instrumental music privately or have had previous instrumental training. This group concentrates on ensemble experience. The orchestra will perform at scheduled concerts during the year. Participation in Solo and Ensemble festival is required. The Flint Institute of Music requires that all students participating in their programs take band or orchestra in their home schools. Two years of orchestra will replace the Physical Education requirement.

## VOCAL MUSIC

521/22 Madrigal Choir	Pre-requisite: None Grade level: 9,10,11,12	Year: Program:	2 credits Average
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This course is designed for all experienced and non-experienced singers who would like to pursue the art of vocal music. Concert performances will be scheduled. This course will focus on the fundamentals of vocal music. Vocal techniques will be taught and practiced (This choir class is not an alternative religion credit.)

## VISUAL ARTS

541 Art I	Pre-requisite: None Grade level: 9,10,11,12	Semester: Program:	1 credit Average
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Art I is designed to teach the basics in art to a student that is wishing to use this as an elective, or to begin the whole visual arts curriculum. Introduction applications in Drawing and Design are taught, using a broad base of media, to get a little bit of experience in as much as possible. Art History and Art Criticism are introduced. Units include still-life drawing, color theory, painting, sculpture, and pen and ink.

542 Art II	Pre-requisite: Art I (or 1 sem of art) Grade level: 9,10,11,12	Semester: Program:	1 credit Average
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Art II is designed to continue learning the basics of design and further their studies in working with media, history and criticism. Units include illustration, pen and ink, portrait drawing, watercolor painting, paper mache, collage, linoleum printing, and brochure design.

543 Art III	Pre-requisite: Art II (or 2 sem of art) Grade level: 10,11,12	Semester: Program:	1 credit Advanced
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Art III is designed to take the student beyond basic level art making and strive toward more advanced problem solving and critical thinking. Students will use past knowledge of art styles to influence their own art making. Units include: graphic design, figure drawing, oil pastel drawing, oil painting, found object sculpture, mixed media, monoprinting.

544 Art IV	Pre-requisite: Art III (or 3 sem of art) Grade Level: 10, 11, 12	Semester: Program:	1 credit Advanced
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Art IV is designed for the student who wishes to pursue advanced art problems. Units include: 2-D design, colored pencil illustration, package design, additive sculpture, jewelry, etching.

551/52 Advanced Art	Pre-requisite: Art IV (or 4 sem of art) Grade Level: 11, 12	Semester: Program:	1 credit Advanced
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Advanced Art is designed for the student who has achieved mastery in one or more techniques and wishes to develop them further. It also introduces art careers and units of study including Interior Design, Fashion Design, Industrial Design, Digital Media, Subtractive Sculpture, and Silkscreen

Printing. May be repeated once for credit.

555	Pre-requisite: None	Semester: 1 credit
Ceramics	Grade level: *10,11,12 (11 or 12 recommended)	Program: Average

Ceramics is a class that teaches hand-building techniques in clay, such as pinch, coil, slab, and sculpture. Projects are both practical and decorative. Students also explore different finishes in low-fire glazes and underglazes.

561/62	Pre-requisite: By Invitation Only	Year: 2 credits
AP Studio Art	Grade level: 11, 12	Program: Elite

AP Studio Art is designed for the 3<sup>rd</sup> or 4<sup>th</sup> year art student who has demonstrated high proficiency in art, and wishes to continue studying art in college or wishes to possibly earn college credit upon passing the College Board Portfolio Exam. This class demands work outside of class as well as inside of class, strict deadlines, writing, and commitment to purchasing and submitting a final portfolio for evaluation. Any student wishing to take this course must first have written permission from the instructor. May be repeated once for credit.

### **THEATER ARTS**

565	Pre-requisite: None	Semester: 1 credit
Introduction to Drama	Grade level: 10,11,12	Program: Average

This course is designed to introduce students to the origins of drama and all aspects of theater production. Units on theater history, acting, directing, lighting, make-up, costumes, scenery construction, and publicity will be covered. This class will be taught in the theater and will include many hands-on activities. Students will also be given an opportunity to direct and produce a one-act play upon completion of this course.

566	Pre-requisite: None	Semester: 1 credit
Introduction to Acting	Grade level: 10,11,12	Program: Average

This course is designed to introduce students to basic techniques of stage performance. Units on improvisation, characterization, method acting, script memorization and theater conventions will be covered. The class will be taught in the theater and will include many hands on activities. Grades will be based on written tests, preparation and effort, and improvement.

045	Pre-requisite: None	Semester: 1 credit
Forensics	Grade level: 10,11,12	Program: Average to Advanced

Forensics is a course designed to prepare the student to participate in various speech activities. The student will be required to prepare selected speeches for classroom presentation. Students will master speeches in the following areas: informative speaking, original oratory, broadcasting, serious and humorous interpretations, extemporaneous and impromptu speaking, story telling, and multiple presentations. Students will also be given an opportunity to compete with other schools in tournaments in the spring if they so desire.

## FOREIGN LANGUAGE

The main goal of the Foreign Language Department is to promote understanding among the people of the world by improving communications between them. This is achieved by teaching students to speak other languages and by studying other cultures. We also hope that by understanding others, students will better understand their own culture and language. The overall experience of language enables the student to gain further insight into the logic of language and practicality of historical study. Three years of language is recommended for those in a general course of study who may have college ambitions. Those in an advanced program should consider the challenge of four years of language.

101/02 French I	Pre-requisite: B- or Better Average In English	Year: Program:	2 credits Average
	Grade level: 9,10,11,12		

An introduction to French language and culture is presented to the student. Level I students learn the language by assimilating the dialogue through repetition, reading, substitution drills, question and answer drills, dialog and skits. Learning takes place through speaking, listening, writing and comprehension.

111/12 French II	Pre-requisite: Approval of Teacher	Year:	2 credits
	Grade level: 9,10,11,12	Program:	Average

Second year students will continue to develop those skills introduced in French I. As the students progress in their mastery of basic skills, sounds, and simple sentences, they will gradually learn to read, recite, and write more complex material. Self-expression in the target language in practical, every day situations is the goal in French II.

121/22 French III	Pre-requisite: B- Average in French II	Year: Program:	2 credits Advanced
	Grade level: 11,12		

Advanced grammar and increased verb knowledge will be emphasized with the use of a workbook. Students will work towards better mastery of conversation through skits and class participation. Literature and composition will be stressed. College material will be stressed in the second semester to prepare the student for college French classes.

131/32 French IV	Pre-requisite: B- Average in French III	Year: Program:	2 credits Advanced
	Grade level: 11,12		

Texts include a variety of workbooks, short stories, poetry, novels, plays. Classes will be largely conducted in French. Students will read, discuss and write compositions in the target language. Historical, cultural and contemporary aspects of the French people in France, Canada, Africa, and French-speaking countries will be important topics. Students will have the option to take the Advanced Placement Exam in the spring.

141/42	Pre-requisite: B- or Better Average	Year:	2 credits
Spanish I	In English	Program:	Average
	Grade level: 9-12		

In Spanish I, students are introduced to the language and culture of Spanish-speaking countries. Course objectives include learning to understand and use the basic concepts of written and spoken Spanish, appreciating the cultures of Spanish-speaking countries, developing confidence in the use of a foreign language and a greater interest in the world at large. Students will study and practice grammar, pronunciation, vocabulary, reading, and conversation through lecture, group work, written assignments, oral drill, and participation in lab sessions.

151/52	Pre-requisite: Teacher	Year:	2 credits
Spanish II	Recommendation	Program:	Average
	Grade level: 9-12		

This course is a continuation of Spanish I and is conducted largely in the same manner with regard to structure. Students will study more advanced grammatical structures, continue their exposure to other cultures, and be expected to use and understand spoken and written Spanish with higher frequency. Other activities include compositions, participation in group work, and lab sessions.

161/62	Pre-requisite: Teacher	Year:	2 credits
Spanish III	Recommendation	Program:	Advanced
	Grade level: 10-12		

In Spanish III, students will continue the study of grammar, vocabulary and Hispanic culture, but at a more advanced pace. The class is conducted largely in Spanish, and students will be expected to use and understand increasingly complex concepts and structures as they listen, speak, read and write in the language. Class activities will include lectures, discussions, group work, drills, skits, lab sessions, analyzing short stories, and writing compositions. Students will be given the opportunity to attend cultural performances. Significant speaking and listening skills will be developed.

171/72	Pre-requisite: Teacher	Year:	2 credit
Spanish IV	Recommendation	Program:	Advanced
	Grade level: 11-12		

The emphasis in Spanish IV will be on the further development of reading, writing, listening and speaking skills, with some continued study of grammar and vocabulary. Students will read and analyze longer selections of Hispanic literature from a variety of Old and New World authors. Class activities will also include discussions, group work, skits, lab sessions, compositions, and attendance at cultural performances. The class is conducted in Spanish and active, spontaneous use of the language is expected. Successful Spanish IV students will be encouraged to take the Advanced Placement Exam in Spanish Language in May.

## HEALTH AND PHYSICAL EDUCATION

The Health and Physical Education Department attempts to teach skills and attitudes necessary for healthy, happy living. The department offers physical education classes geared towards all types of physical and leisure activities. In physical education classes, an extensive physical fitness for life program is stressed throughout the year. Students participate in the Presidential Physical Fitness testing program which adheres to standards recommended by the President's Council on Physical Fitness. The department offers health education which exposes students to a variety of concepts and techniques in hopes that they will better meet life problems and effectively deal with them. Alcoholism, cancer, drug abuse, and mental illness are among those life problems which are discussed. Two semesters of physical education and one semester of health education are required for graduation.

801/02	Pre-requisite: None	Year:	2 credits
Physical Education/Health	Grade level: 9	Program:	Average

This is a general course in Physical Education. All classes are co-educational. Basic skills are taught in team and individual sports. Emphasis is given to fitness and improvement. Gym fees include equipment use.

811/12	Pre-requisite: Physical Education	Semester:	1 credit
Sports Skills & Physical Fitness/Health	Grade level: 10,11,12	Program	Average

This class will offer the student-athlete an opportunity to improve on specific skills for a specific and determined sport. He/she will also improve on strength and fitness with alternating workouts. Specific programs will be established to meet the individual needs of the student in one (but not more than two) of the following sports: baseball, basketball, cross country, football, softball, tennis, volleyball. The coach of the sport may have input on individual workouts. This class does not guarantee a position on an athletic team. It also is not required that student-athletes be a member of a team prior to this class. Health education combines knowledge and practical skills for positive approaches to basic life situations. Units to be covered include mental health, first aid, alcohol, drugs, tobacco, and STD's (sexually transmitted diseases).

821/22	Pre-requisite: None	Semester:	1 credit
Health Education	Grade level: 12	Program:	Average

Health education combines knowledge and practical skills for positive approaches to basic life situations. Units to be covered include mental health, first aid, alcohol, drugs, tobacco, and STD's (sexually transmitted diseases).

825	Pre-requisite: Phys. Education	Semester:	1 credit
Strength and Conditioning	Grade level: 10,11,12	Program:	Average

This class is designed to introduce students to the proper techniques of strength training. Each student will be on an individual program which will work the entire body. Students will keep track of their improvements, learn the muscles and skeleton structure of the body and how strength can be improved through proper training. The dangers of muscle enhancing agents will also be covered. Each student's program will also include conditioning to improve agility, speed, quickness and jumping. This is a semester class, designed for both male and female students.

831/32	Pre-requisite: 852	Semester:	1 credit
P.E. Assistant	Grade level: 11,12	Program:	Average

Students may elect this class in which they assist the instructor. Both males and females are needed for each class of every hour. This class is especially important for students considering the fields of physical education or athletic training. Students will be expected to lead exercises and assist in teaching various skills.

## MATHEMATICS

The Mathematics Department believes that all students should have an opportunity to take math courses suited to their individual ability and interest level. Therefore, the department offers a variety of basic, general and advanced courses. Some courses are planned to prepare students in a specific area of math; others are planned to allow them to explore areas of interest and enjoyment; still others are simply to strengthen the students' background in mathematics.

It is required that all students take at least two years of math and suggested that college-bound students take four years.

301/02	Pre-requisite: None	Year:	2 credits
Intro to Algebra/Geom I	Grade level: 9	Program:	Basic

This course is for students who have a limited knowledge of basic computational skills. Intro to Algebra and Geometry will function as a remedial course and emphasis will be placed on the following skills: addition, subtraction, multiplication, and division of whole numbers and fractions; working with decimals and percents and shapes. Students are selected for this course on the basis of the Stanford Achievement Test, the Explore placement test that is given by Powers, and 8<sup>th</sup> grade teacher recommendation.

303/04	Pre-requisite: Referral Basis	Year:	2 credits
Intro to Algebra/Geom II	Grade level: 10, 11	Program:	Basic

This course is a continuation of Introduction to Algebra/Geometry I. Material covered in this course will include ratios and proportions, integers, graphs, simple statistics, measurement, basic geometry concepts, and simple equations. Students are selected for this course based on teacher recommendation.

310/11	Pre-requisite: None	Year:	2 credits
Algebra 1.1	Grade level: 9,10,11	Program:	Basic

This course is designed to take one year to cover what is normally covered in the first semester of a regular Algebra I course. It is offered to all students who have done below average work in 8<sup>th</sup> grade mathematics. This course should be taken only by those students whose mathematical background is not strong enough to allow them to succeed in Algebra I. Topics covered are:

- a. real numbers and number line
- b. symbols of math and set theory
- c. basic equations and inequalities
- d. expressions involving direct numbers
- e. plane geometry of lines, segments, rays, angles, triangles.

312/13	Pre-requisite: 310/311	Year:	2 credits
Algebra 1.2	Grade level: 10,11	Program:	Basic

This course is a continuation of Algebra 1.1 and is designed to cover in one year what is normally covered in the second semester in a regular Algebra I course. It includes a review of operations with direct numbers, solving equations and working with polynomials. Topics to be discussed are: graphing equations, rational and irrational numbers, and radicals.

321/22	Pre-requisite: 312/313	Year:	2 credits
Elementary Geometry	Grade level: 11,12	Program:	Basic

The major goal of this course is to teach “basic geometric content,” including much of the content normally taught in a plane geometry course. Topics include properties of polygons, angle measure, constructions, parallelism, area and perimeter, and similarity and scale drawing. The content is developed by a variety of methods.

331/32	Pre-requisite: None	Year:	2 credits
333/34A	Grade level: 9,10	Program:	Average and
Algebra I			Advanced

Algebra I is offered to all ninth graders who have accomplished average or above average work in 8<sup>th</sup> grade mathematics. There is an advanced section of Algebra I offered in which the students are challenged more and move at a faster rate so as to cover more material in depth. Students are selected for the advanced course on the basis of achievement tests and a placement test given by Powers. Section 3133 is the advanced section of Algebra I.

341/42	Pre-requisite: Algebra I	Year:	2 credits
343/44A	Grade level: 10	Program:	Average and
Geometry			Advanced
Geometry A	9 <sup>th</sup> grade with Alg I Test		

This course is designed to give the student an understanding and appreciation of the structure of geometry. The student will also learn about the role of inductive and deductive reasoning. The students will learn to appreciate the need for clarity and precision of mathematical language. Ninth graders desiring to take Advanced Geometry must perform satisfactorily on an algebra test given at Powers. Geometry A will cover the material more thoroughly.

354/55  
Integrated Alg II/Trig I/II

This course is designed for seniors who have had three years of lower level mathematics. It will provide a continuing program of study of computations and problem solving skills, algebra, geometry as well as trigonometry. There will be some practice math applications.

361/62                                      Pre-requisite: 341/342 or 343/344      Year:                      2 credits  
Algebra II                                      Grade level: 10,11,12                      Program:                      Advanced

This is a course in college preparatory mathematics for those who are able to grasp and apply mathematical principles. There is a thorough presentation of polynomial functions, graphing, quadratics, matrices and properties of a mathematical system. Some experience is given to exponential and logarithmic functions and conic sections.

363/64  
Algebra II Advanced

This is a course in college preparatory mathematics for those who are able to grasp and apply mathematical principles. There is a thorough presentation of polynomial functions, graphing, quadratics, matrices and properties of a mathematical system. Some experience is given to exponential and logarithmic functions and conic sections.

372    Pre-requisite: 354                                      Semester:                      1 credit  
Trigonometry                                      Grade level: 12                                      Program:                      Average

This course begins with a study of trigonometric functions with all angles in standard position. The development of the basic trigonometric identities and laws of triangles and formulas is carefully studied as well as circular functions and graphing. As much practical application as possible is used in this course.

371    Pre-requisite: 354/355                                      Semester:                      1 credit  
Math Topics                                      Grade level: 12                                      Program:                      Average

This course is designed for the student who wishes to continue to work in math but does not desire nor need as rigorous an approach as Pre-Calculus. The main thrust of this course is into more advanced topics of mathematics. Some of the topics discussed are analytical geometry, conic sections, matrices, determinants, sequences and series.

381/82    Pre-requisite: 363/364                                      Year:                                      2 credit  
Pre Calculus                                      Grade level: 11,12 B or Better                      Program:                      Advanced

This is a course designed to prepare students for further work in mathematics, specifically calculus. Topics covered include trigonometric functions, graphs, inverses, and identities, law of sines, law of cosines. Second semester material includes functions and their graphs, polynomial and rational functions, exponential and logarithmic functions. As time permits, systems of equations and inequalities, matrices, and sequences, series, and probability would also be taught.

391/92	Pre-requisite: 363/364	Year:	2 credits
Advanced Placement	B or Better	Program:	Advanced
Calculus	Grade level: 12		

This is a college level course intended for students with a strong background in mathematics, science, and English along with a definite interest in the future study of science and/or mathematics. Students are expected to take the College Board Advanced Placement Calculus Exam, which is offered in May. Topics include: the properties of functions, limits and continuity, the derivative and its applications, techniques of integration, and applications of definite integral. Due to the difficulty of the material involved and the rigor of the course, a significant amount of homework will be assigned.

## SCIENCE

The Science Department at Powers Catholic High School believes that students should be introduced to the wonders and processes of the environment and, in general, become scientifically literate. They should develop an appreciation of the way in which man has been able to gain knowledge and control of his/her environment by using the processes of observation, inquiry and investigation. Through a better understanding of the specific rapidly changing technological society, the student will be able to contribute to it.

Because the Powers Science Department is committed to an integrated and well-rounded science education, students are required to complete a semester of biology and a semester of physical science before they advance to the next level.

403 (Bio.)/404 (Phys.Sci.) Science Concepts I	Pre-requisite: None Grade level: 9,10	Year: Program:	2 credits Average
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This course is intended for students who would have difficulty in Science I. Students who have done below average work in eighth grade science and/or mathematics are advised to begin with this course. This course introduces the students to topics in biology, chemistry and physics and familiarizes them with the procedures a scientist must follow in problem solving and experimentation.

405 (Bio.)/406(Phys.Sci.) Science I	Pre-requisite: Enrollment in Algebra I or higher Grade level: 9	Year: Program:	2 credits Average
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This course is the first in a three year sequence that will cover the content of the more traditional biology, chemistry, physics sequence. In the physical science semester, an emphasis is placed on matter and energy with considerable material forming the foundations of chemistry being covered. An emphasis on problem solving is found throughout the course. In the biological semester an emphasis is placed on cell biology.

407(Bio.)/408 (Phys.Sci.) Science I Advanced	Pre-requisite: Enrollment in Algebra I or above Grade level: 9	Year: Program:	2 credits Advanced
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The honors sections cover material similar to Science I but at a greater speed and/or in greater depth. The biology area, the three year sequence will provide a solid basis for the AP Biology Exam.

413 (Bio.)/414 (Phys.Sci.) Science Concepts II	Pre-requisite: Science Concepts I Grade level: 10,11	Year: Program:	2 credits Basic
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This course is for 10<sup>th</sup> grade students who have completed Science Concepts I as freshmen. Elementary Science II seeks to build upon those topics in biology, chemistry, and physics which were covered in Elementary Science I.

415 (Bio.)/416 (Phys.Sci.) Science II	Pre-requisite: Science I or Dept. Permission Grade level: 10	Year: 2 credits Program: Average
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This is the second year of a three year science program. It is a lab-oriented course emphasizing the inter-relatedness of the sciences and using materials from the areas of biology, chemistry and physics. The content of this course focuses on the relationship of matter, energy, and life. The student will be expected to make a greater application of mathematics than was expected of him/her in Science I.

417 (Bio.)/418 (Phys.Sci.) Science II Advanced	Pre-requisite: Science I A or Dept. Permission Grade level: 10	Year: 2 credits Program: Advanced
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The honors sections cover material similar to Science II but with more emphasis on theory and numerical calculations. In the biological area, the three year sequence will provide a solid basis for the AP Biology Exam.

423 Biology Concepts III	Pre-requisite: Science Concepts II or Dept. Permission Grade level: 11	Semester: 1 credit Program: Basic
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This course is designed for 11<sup>th</sup> grade students who have completed at least two years of Science Concepts. This course will build on the material covered in the previous courses. Specific content may vary with the area of expertise of the current instructor. Topics may include genetics and ecology.

424 Physical Science Concepts III	Pre-requisite: Science Concepts II or Dept. Permission Grade level: 11	Semester: 1 credit Program: Basic
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This course is designed for 11<sup>th</sup> grade students who have completed at least two years of Science Concepts. This course will build on the material covered in previous courses. Specific content may vary with the area of expertise of the current instructor. Topics may include chemical formulas, reaction types, acids, bases, and gas laws.

425 (Bio.)/426 (Phys.Sci.) Science III	Pre-requisite: Science II Grade level: 11	Year: 2 credits Program: Average
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This course is the third year of a three year science sequence. It consists of a semester of physical science and a semester of biological science. The physical science topics include dynamics and equilibrium (both chemical and physical), acids and bases, and oxidation/reduction reactions. The biological topics also stress dynamics and change, covering genetics in considerable detail as well as ecological aspects of dynamics and equilibrium in communities and plants.

427 (Bio.)/428(Phys.Sci.) Science III Advanced	Pre-requisite: Science II A or Dept. Permission Grade level: 11	Year: 2 credits Program: Advanced
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The advanced sections of Science III will cover material similar to Science III but in greater depth and in some cases with a greater dependence on mathematics. Students should have a solid basis for taking the AP Biology Exam after completing Science III A.

433 Earth Science	Pre-requisite: Science III Grade level: 12	Semester: 1 credit Program: Average
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This course is designed for 12<sup>th</sup> grade students who have completed Science I, II and III. It will introduce students to a variety of topics including but not limited to rock identification, water analysis and weather. Topics covered will vary depending on the expertise of the instructor.

434 Environmental Science	Pre-requisite: Science III Grade level: 12	Semester: 1 credit Program: Average
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This course is designed for 12<sup>th</sup> grade students who have completed Science I, II and III. This course introduces students to Michigan's environmental concerns and problems. Other topics will be chosen by the instructor as time allows.

441/42 Anatomy and Physiology	Pre-requisite: 425/26 or 427/28 current enroll.in 427/28 Grade level: 11, 12	Year: 2 credits Program: Average
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This course is an intensive study of the structure and function of the human body. The fundamental principles of biology coupled with an in-depth application of chemistry to physiology is included in the program. The course is geared to the college bound student with a vocational interest in general science, medicine, law, dentistry, nursing, pharmacy, lab technology, etc. Some of the major topics covered, in addition to anatomy and physiology, infectious disease, biochemistry, pharmacology, dissection, and disease mechanisms of the major body systems.

451/52 Advanced Physics	Pre-requisites: 426/428 Grade level: 12	Year: 2 credits Program: Advanced
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This course expands on many of the physics topics covered in Science I, II, and III and adds many additional topics. The course work should be similar to a non-calculus introductory college physics course. Some students may opt to take the AP Physics Exam based on the material covered in this course. Considerable use of mathematics should be expected, and students should have had some exposure to trigonometry prior to taking Advanced Physics.

461/62 Advanced Chemistry	Pre-requisite: 425/426 Grade level: 12	Year: 2 credits Program: Advanced
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This is a course designed for seniors to both give intensive review and introduce advanced topics in general chemistry. Concepts covered include: gas laws, atomic structure and bonding, stoichiometry, chemical thermodynamics, chemical kinetics, acids and bases, equilibrium, electrochemistry, oxidation - reduction, inorganic chemistry and the basis of organic chemistry.

## **SOCIAL STUDIES**

The Social Studies Department of Powers Catholic High School exists to create an awareness of man's past, present, and future and, thereby, to foster meaningful living in the twenty-first century. The cultural, historical, sociological, economical and psychological implications for modern man, viewed in a Christian perspective, alert the individual students to their responsibility to continue in their development as dynamic catalysts in the world of today and tomorrow.

201/02	Pre-requisite: None	Year:	2 credits
World Geography	Grade level: 9	Program:	Basic to Advanced

World Geography is a survey class that studies the countries of the world and their peoples. Textbook reading, map studies and skills, and worksheets are an integral portion of the class. In addition, current events from magazines and newspapers are used along with movies and videos to supplement the most current knowledge of the area of study. This class is for students in basic or average level classes.

203/04	Pre-requisite: None	Year:	2 credits
World History	Grade level: 9	Program:	Average

World History is a basic introduction to the cultures and history of the world's people in Europe, Africa, Asia, and Latin America. Through classroom lectures, directed readings, and research projects, the course attempts to broaden the student's understanding of these various cultures and help develop an insight into the growth of nations.

213/14	Pre-requisite: Application and	Year:	2 credits
Honors Humanities	Acceptance	Program:	Advanced
World History 9	Grade level: 9		

Honors Humanities (HH) is an honors course designed to cover the contents of freshman theology, English, and world history in an integrated manner. The class consists of a three hour time block with a different teacher each hour. The class will be composed of approximately twenty-five students selected by a faculty committee. In HH 9 the students will become acquainted with the broad outlines and changing patterns of world religions, literature, and cultures. The students in HH will be expected to read classic works of world literature, to write clearly and correctly, to exercise critical thinking skills, and to function as highly motivated, independent learners. This course is the first in a two year sequence.

221/22	Pre-requisite: None	Year: 2 credits
Basic American History	Grade level: 10	Program: Basic

This is a course designed to give the student a basic understanding of America and its traditions. The course will concentrate on developing many of the themes that have shaped our present society. Care will be taken in helping the student develop many of the skills necessary for understanding our heritage.

231/32	Pre-requisite: None	Year: 2 credits
American History	Grade level: 10	Program: Average

This is a course designed to acquaint the student with some of the events and forces that have shaped contemporary American society. Through classroom lectures, outside readings, textbooks, and research projects, the student will receive a basic understanding of the heritage of their nation.

233/34	Pre-requisite: Application and Acceptance	Year: 2 credits
Honors Humanities	Grade level: 10	Program: Advanced
American History 10		

Honors Humanities (HH) is an honors course designed to cover the contents of sophomore theology, English, and American history in an integrated manner. The class consists of a three hour time block with a different teacher each hour. The class will be composed of approximately twenty-five students selected by a faculty committee. In HH 10 the students will increase their knowledge and understanding of religion and the Catholic Church in America, American literature, and American history. The students in HH 10 will be expected to read classic works of American literature, to write clearly and correctly, to exercise critical thinking skills, and to function as highly motivated, independent learners. This course is the second in a two year sequence.

235	Pre-requisite: None	Semester: 1 credit
Michigan History	Grade level: 11,12	Program: Average

This course is a comprehensive survey of the settlement and development of Michigan with emphasis on major events, movements and personalities. It follows the outline given in the text and develops a chronological approach to history. Through the use of the text, films lecture, reports and projects, the course tries to meet the intellectual curiosity of the students in the history of their own state and to evoke interest and pride in Michigan's varied and rich heritage.

241	Pre-requisite: None	Semester: 1 credit
Basic Government	Grade level: 12	Program: Basic

A course in government intended for a basic level of understanding of the functions of federal, state, and local governments.

251/52	Pre-requisite: None	Semester: 1 credit
Government	Grade level: 12	Program: Average

Government is a study of the processes and functions of national, state, and local government. This course includes a study of federalism, political parties, constitutional principles, and the role of the citizen.

255	Pre-requisite: None	Semester: 1 credit
Economics	Grade level: 11,12	Program: Average

This is a general survey course in economics. Both micro and macroeconomic concepts will be covered. Microeconomics will cover: The Nature and Functions of Markets, Theory of the Firm, Factors Markets, The Role of the Government. Macroeconomics will cover: Measuring Economic Performance, Aggregate Demand and Aggregate Supply, Money and Monetary Policy.

261/62	Pre-requisite: None	Year: 2 credits
AP Government	Grade level: 11	Program: Advanced

This course is a intensive examination of national, state, and local government. Concepts in micro and macroeconomics will be included. These topics, as well as current events, will be covered through lectures, group discussions, and written reports. It is expected that students taking this course will take Advanced Placement exams in May.

264	Pre-requisite: Teacher rec.	Semester: 1 credit
AP Economics	Grade level 11,12	Program Advanced

This course is designed as an intensive study in macroeconomics. It is expected that students taking this course will take the AP exam in the spring.

265	Pre-requisite: None	Semester: 1 credit
American Foundations	Grade level: 11, 12	Program: Average

This course would take a close look at the History of the United States, as it is interwoven with that of the world, from English colonization to Reconstruction. An emphasis would be placed on events of that era that impact the cause/effect relationship of events that come after that time period. Students will be encouraged to delve into these topics through the use of materials beyond their textbooks. Discussion, debate, and drawing conclusions will be a vital part of this course.

271/72	Pre-requisite: None	Year:	2 credits
AP European History	Grade level: 11,12	Program:	Advanced

The emphasis of the course will be from 1450 A.D. to the present. This course is intended for the student who will pursue liberal arts or law in college. Students taking this class are expected to take the Advanced Placement examination in European History at the end of the year.

275	Pre-requisite: None	Semester:	1 credit
Psychology	Grade level: 11,12	Program:	Regular/Adv

This course is an introduction to the methods and concepts of psychology. Emphasis will be upon the concepts of development, personality, motivation, emotion, adjustment, perception, learning, thinking and intellectual functioning.

276	Pre-requisite: Psychology	Semester:	1 credit
AP Psychology	Grade level: 11,12	Program:	Advanced

This course is an introduction to the methods and concepts of psychology. Emphasis will be upon the concepts of development, personality, motivation, emotion, adjustment, perception, learning, thinking and intellectual functioning. AP students will strive for more depth of understanding in order to prepare for the Advanced Placement exam given in the spring.

## THEOLOGY

Religion at Powers Catholic High School will follow the U.S. Bishop's Council Curriculum.

901/02 Religion 9	Pre-requisite: None Grade level: 9	Year: Program:	2 credits Average
903/04 Honors Humanities Religion - 9	Pre-requisite: Application and Acceptance Grade level: 9	Year: Program:	2 credits Advanced

Honors Humanities (HH) is an honors course designed to cover the contents of freshman theology, English, and world history in an integrated manner. The class consists of a three hour time block with a different teacher each hour. The class will be composed of approximately twenty-five students selected by a faculty committee. In HH 9 the students will become acquainted with the broad outlines and changing patterns of world religions, literature, philosophy, and cultures. The students in HH 9 will be expected to read classic works of world literature, to write clearly and correctly, to exercise critical thinking skills, and to function as highly motivated, independent learners. This course is the first in a two year sequence.

911/12 Religion 10	Pre-requisite: None Grade level: 10	Year: Program:	2 credits Average
913/14 Honors Humanities Religion - 10	Pre-requisite: Application and Acceptance Grade level: 10	Year: Program:	2 credits Advanced

Honors Humanities (HH) is an honors course designed to cover the contents of sophomore theology, English, and American history in an integrated manner. The class consists of a three hour block with a different teacher each hour. The class will be composed of approximately twenty-five students selected by a faculty committee. In HH 10 the students will increase their knowledge and understanding of religion and the Catholic Church in America, American literature, and American history. The students in HH 10 will be expected to read classic works of American literature, to write clearly and correctly, to exercise critical thinking skills, and to function as highly motivated, independent learners. This course is the second in a two-year sequence.

921/22 Religion 11	Pre-requisite: None Grade level: 11	Year: Program:	2 credits Average
931/32 Religion 12	Pre-requisite: None Grade level: 12	Year: Program:	2 credits Average