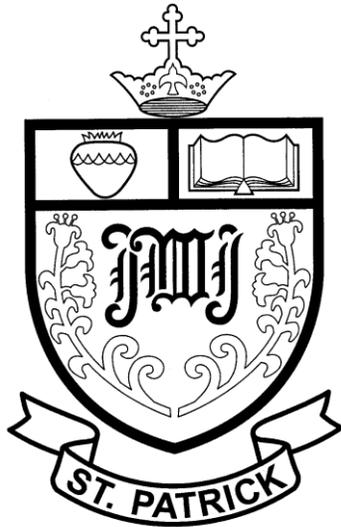


# St. Patrick High School



## Curriculum Guide 2016~2017

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Administrator

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In order to graduate, a student must successfully complete **24 credits** of course work and satisfy the following course requirements:

**English Offerings – 4 credits required\***

- 9 English Literature & Composition\*
- 10 American Literature & Composition\*
- 11 World Literature & Composition I \*
- 12 World Literature & Composition II\*
- or
- 12 Advanced Placement English Literature & Composition

**Mathematics Offerings – 4 credits required in high school\***

- Algebra I\*
- Algebra II\*
- Geometry\*
- Math Essentials
- Pre Calculus
- Statistics
- Advanced Placement Calculus

**Science Offerings – 3 credits required\***

- 9 Physical Science\*
- 10 Biology\*
- 11 Chemistry\*
- 12 Physics
- 12 Advanced Placement Biology

**Social Studies Offerings – 3 credits required\***

- 9 World History\*
- 10 United States History\*
- 11 Economics (.5 credit)\*
- 11 Government (.5 credit)\*
- 12 Advanced Placement History

**Theology Offerings – 4 credits required\***

- 9 Our Catholic Faith (.5 credit)\*
- 9 The Church: Continuation of Christ's Work in the World Today (.5 credit)\*
- 10 Life in Christ (Morality) (.5 credit)\*
- 10 Sacraments as the Principal Manifestations of Christ (.5 credit)\*
- 11 The Word of God (Old Testament) (.5 credit)\*
- 11 Christ: The Eternal Word (New Testament) (.5 credit)\*
- 12 Life in Christ (Part II – Social Justice) (.5 credit)\*
- 12 Sacraments of Service (.5 credit)\*

## **Art Offerings – 1 credit required\***

Art I\*

## **Foreign Language Offerings – 2 credits required\***

German I\*

German II\*

German III

or

Spanish I\*

Spanish II\*

Spanish III

## **Physical Education Offerings – 1 credit required\***

Health (.5 credit)\*

Physical Education (.5 credit)\*

## **Technology – 1 credit required\***

Introduction to Microsoft Office (.5 credit)\*

Online Experience (.5 credit)\*

## **Other - .5 credit required\***

Personal Finance (.5 credit)\*

## **Elective Offerings** (May vary each year.)

Art II

Career Development

Dual Enrollment

Heartlands Institute of Technology: *Aviation, Auto Technology, Culinary Arts, Plant/Animal Science, Dental Occupations, Health Occupations, Criminal Justice, Diesel/Heavy Equipment, Machine Tool/CAM*

Independent Study

Language Development and Analysis

Physical Education

Yearbook



# ENGLISH COURSE OFFERINGS

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## **World Literature & Composition I**

Grade(s): 11

Credit: 1

Prerequisite: American Literature & Composition

This is the first year of a two-year course that encourages a personal appreciation of literature and develops the students' powers of expression both in oral and written communication. It also introduces students to a range of literary works of different periods, genres, styles, and contexts, which broadens the students' perspectives through the study of works from other cultures and languages. Students are introduced to ways of approaching and studying literature, leading to the development of an understanding and appreciation of the relationships between different works.

## **World Literature & Composition II**

Grade(s): 12

Credit: 1

Prerequisite: World Literature & Composition I

This is the second year of a two-year course that encourages a personal appreciation of literature and develops the students' powers of expression both in oral and written communication. It also introduces students to a range of literary works of different periods, genres, styles, and contexts, which broadens the students' perspectives through the study of works from other cultures and languages. Students are introduced to ways of approaching and studying literature, leading to the development of an understanding and appreciation of the relationships between different works.

## **Advanced Placement English Literature & Composition**

Grade(s): 12

Credit: 1

Prerequisite: Honors World Literature & Composition

Signature needed: Instructor

This is a fourth year course in a vertical team\* approach geared toward advanced placement credit and college English through the careful reading of world literature from various periods from the sixteenth century on. The works will be of recognized literary merit that are likely to be taught in an introductory college literature course. Students will learn to use the modes of discourse and to recognize rhetorical strategies. Students will encounter various cultural perspectives and apply the principles of Catholic Social Teaching.

# MATHEMATICS COURSE OFFERINGS

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**GRADUATION REQUIREMENTS:** 3 credits / 4 credits Graduating Class of 2011

High School Algebra I

Freshmen: Algebra II / Honors Algebra II

Sophomores: Geometry / Honors Geometry

Juniors: Pre-Calculus / Honors Pre-Calculus

Seniors: AP Calculus (AB) / Statistics

## High School Algebra I

Grade(s): 9

Credit: 1

Prerequisite: none

Signature needed:

The goal of this class is to prepare students for success in more advanced math classes, especially for those who have struggled in math in the past. This course is designed to reinforce the basic concepts such as writing and simplifying algebraic expressions, writing, solving and graphing linear, quadratic, and exponential functions, inequalities, and problem solving with basic trigonometry, probability, and statistics.

## Algebra II / Honors Algebra II

Grade(s): 9

Credit: 1

Prerequisite: Algebra I

Signature needed: Instructor for Honors Algebra II

This course is designed to encourage students to continue in mathematics. While emphasizing and reinforcing fundamental algebraic skills, the course will extend and/or advance discussion of linear, quadratic, and exponential functions, matrices, systems of equations/inequalities, probability, statistics and trigonometry through the use of appropriate technology, activities and applications. *Course goals for Algebra II and Honors Algebra II will be the same, however, the difference in the courses will be one of emphasis, pace and student expectations.*

## Geometry

Grade(s): 10

Credit: 1

Prerequisite: Algebra I / Honors Algebra I

Signature needed: Instructor for Honors Geometry

This course will focus on topics of Euclidean Geometry through the use of vocabulary of two and three dimensional properties, logic, technology and activities to enhance life connections. A heavy emphasis is placed on logic and reasoning through proving geometric properties.

# MATHEMATICS COURSE OFFERINGS

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## **Pre-Calculus / Honors Pre-Calculus**

Grade(s): 11

Credit: 1

Prerequisite: Geometry / Honors Geometry, Algebra II/Honors Algebra II

Signature needed: Instructor for Honors Pre-Calculus

This course will reinforce topics of Algebra II/Trig while extending and enhancing them beyond their development in Algebra II/Trig. Topics include function analysis of linear, polynomial, exponential, logarithmic, and trigonometric functions in addition to the properties of conic sections. The skills learned will prepare students to be successful in Calculus. *Course goals for Pre-Calculus and Honors Pre-Calculus will be the same, however, the difference in the courses will be one of emphasis, pace and student expectations.*

## **Math Essentials**

Grade(s): 11/12

Credit: 1

Prerequisite: Algebra II, Geometry

Signature needed: Instructor

This course is meant to reinforce the topics covered in Algebra II so that students are prepared for math classes at the college level. Topics to be covered include modeling with functions, graphing, and solving equations. In addition, this course will also cover other topics in math such as history and logic, that are not covered in other courses.

## **Advanced Placement Calculus (AB)**

Grade(s): 12

Credit: 1

Prerequisite: Pre-Calculus / Honors Pre-Calculus

Signature needed: Instructor

This course contains an in-depth coverage of all topics required for the Advanced Placement Calculus (AB) Exam. Fundamentals of calculus are thoroughly covered through graphical, numerical, and algebraic methods.

## **Statistics**

Grade(s): 12

Credit: 1

Prerequisite: Pre-Calculus/Math Essentials

This course will examine the concepts and tools of statistics for collecting, analyzing and drawing conclusions from data. (Descriptive and Inferential statistics.)

# SCIENCE COURSE OFFERINGS

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## **GRADUATION REQUIREMENTS:** 3 credits

Freshmen: Physical Science

Sophomores: Biology

Juniors: Chemistry

Seniors: Physics / AP Biology

## **Physical Science**

Grade(s): 9 (required)

Credit: 1

Prerequisite: none

Physical science is an introductory course that covers the physical sciences of chemistry and physics. The focus of the class will be on how scientific theory and law are expressed in everyday situations. Newtonian physics and mechanics. The chemistry unit will cover atomic and molecular structure, along with properties of matter and chemical interactions

## **Biology**

Grade(s): 10 (required)

Credit: 1

Prerequisite: none

This is a survey course in which the learner becomes scientifically literate in basic biological topics and develops problem solving skills by applying the scientific method. Major topics explored in this course include cellular structure and function, genetics, molecular biology, ecology, the theory of evolution. Biology also includes a brief introduction to botany and zoology. Students will learn laboratory techniques used in a biology lab including the use of microscopes and gel electrophoresis.

## **Chemistry**

Grade(s): 11

Credit: 1

Prerequisite: Biology and Algebra 2

Students in this course will develop a foundational knowledge of the field of chemistry. The course will include numerous laboratory experiences designed to enhance the understanding of chemical concepts and teach basic laboratory techniques. Major topics explored in this course include Periodic Law, chemical formulas and equations, modern atomic structure, phases of matter, quantitative chemistry, chemical reactions, and acid-base theory. Successful completion of chemistry is a prerequisite for Physics.

# SCIENCE COURSE OFFERINGS

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## **Physics**

Grade(s): 12

Credit: 1

Prerequisite: Algebra II, Geometry

This class will study the properties of Newtonian motion, mechanics, sound, light, and electricity and how they affect daily life in the modern world. This class will involve lessons from a textbook as well as laboratory exercises in order that the students may demonstrate their ability to comprehend and apply the topics of this course. Students must be competent in algebra and knowledge of basic trigonometry is required.

## **Advanced Placement Biology**

Grade(s): 12

Credit: 1

Prerequisite: Biology and Chemistry

Signature needed: Instructor

Advanced Placement Biology will provide students with the opportunity to pursue and receive A.P. credit for college level course work. This course is designed to be the equivalent of a college level introductory biology course for biology majors. The course will move at a rapid pace, roughly equivalent to that of a college course. Strong study skills and an enthusiasm for science are a must. The course aims to provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. In the spring, students will have the opportunity to take the A.P. Biology exam to receive college credit.

# SOCIAL STUDIES COURSE OFFERINGS

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## **GRADUATION REQUIREMENTS:** 3 credits

Freshmen: US History

Sophomores: World History

Juniors: Government / Economics

Seniors: AP History

## **US History**

Grade(s): 9 (required)

Credit: 1

Prerequisite: none

This is a year long course in basic American History, surveying systematically the events that led to the development of the United States. To this end we will begin with a review of events from Christopher Columbus to the Civil War. Emphasis will then shift to the post Reconstruction Era. The political, economic, and social aspects of American life will be considered. Students will study the religious, ethnic and racial backgrounds of America's' people and how each has contributed to the establishment and development of the American nation.

## **World History**

Grade(s): 10 (required)

Credit: 1

Prerequisite: none

This course is a general survey of historical events beginning with the origin of man and continuing through the events of modern civilization. Topics included are: Prehistoric Man, Ancient & Classical Civilizations of the East and West, Middle Ages, Renaissance/Reformation, Scientific Revolution, Age of Exploration, and the Emergence of World Powers. Religion, art, culture and patterns of thought will be discussed. This class is highly recommended as a foundation for studies in other disciplines as well as the social studies curriculum.

## **Government**

Grade(s): 11 (required)

Credit: ½

Prerequisite: none

This course is a study of the foundation of the American governmental system. It is intended to provide the student with a basic understanding of the organization and functions of government and the rights and responsibilities of participatory citizens. The legislative, executive, and judicial branches of federal, state, and local governments are studied.

## **Economics**

Grade(s): 11 (required)

Credit: ½

Prerequisite: none

This course studies resource allocation and basic economic theory from both a micro and macro perspective. The course will emphasize the relevance that economic theory has to student's every day lives.

### **Advanced Placement History**

Grade(s): 12

Credit: 1

Prerequisite: none

Advanced Placement History will provide students with the opportunity to pursue and receive credit for college level course work. This course is designed to be the equivalent of a college introductory American History course taken during their first year of study. The course aims to provide students with in-depth knowledge of American History from Christopher Columbus to present day. The political, economic and social aspects of American life will be considered. Students will encounter various cultural perspectives and apply the principles of Catholic Social Teaching. The students will be strongly encouraged take the AP History exam.

# RELIGION COURSE OFFERINGS

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## **GRADUATION REQUIREMENTS:** 4 credits

Freshmen: Our Catholic Faith / The Church

Sophomores: Life in Christ / Sacraments as the Principal Manifestations of Christ

Juniors: The Word of God / Christ: The Eternal Word

Seniors: Social Justice / Sacraments of Service

## **Our Catholic Faith: Living What We Believe**

Grade(s): 9 (required)                      Credit: ½

Prerequisite: none

This semester course is an overview of what Catholics believe as presented in light of the Catechism of the Catholic Church.

## **The Church: The Continuation of Christ's Work in the World Today**

Grade(s): 9 (required)                      Credit: ½

Prerequisite: none

This semester course is an overall survey of the nature of the Catholic Church in light of its history, purpose and implications to our daily life.

## **Life in Christ (Morality)**

Grade(s): 10 (required)                      Credit: ½

Prerequisite: none

This course will challenge the learner to recognize God's plan for humanity and we are free to respond to Him and His plan. It will explore God's plan, revealed through natural and divine law. It will focus on Christian discipleship in the contemporary world.

## **Sacraments as the Principal Manifestations of Christ**

Grade(s): 10 (required)                      Credit: ½

Prerequisite: none

Through this course, the student will understand the concept and importance of sacraments in the life of a Roman Catholic. The essential characteristics of each sacrament will be studied.

## **The Word of God (Old Testament)**

Grade(s): 11                                      Credit: ½

Prerequisite: none

By studying the Old Testament the learner will understand how God revealed himself to the chosen people prior to the birth of Jesus.

# RELIGION COURSE OFFERINGS

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## **Christ: The Eternal Word (New Testament)**

Grade(s): 11 (required)                      Credit: ½

Prerequisite: none

By studying the structure, development and nature of the Bible, students will come to know that God continues to reveal Christ to us in our daily life.

## **Life in Christ – Part II (Social Justice)**

Grade(s): 12 (required)                      Credit: ½

Prerequisite: none

This course will look at the Church's social teachings and traditions dealing with issues of justice. This will be done by critically analyzing Church documents, and the lived tradition of scripture in dealing with contemporary issues of social sin.

## **Sacraments of Service**

Grade(s): 12 (required)                      Credit: ½

Prerequisite: none

This course is a senior level class that helps prepare a student to live out a particular state of life, either married or ordained. The Sacraments of Marriage and Holy Orders are presented with a detailed emphasis on preparation requirements, the liturgical preparation, sacramental validity, and "effects." This is all within the context of our universal call to holiness.

# ART COURSE OFFERINGS

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**GRADUATION REQUIREMENTS:** 1 credit

**Arts**

Grade(s): 10, 11, 12

Credit: 1, 1/2

Prerequisite: none

This course is designed to introduce the student to the field of art. Students will work primarily on the fundamentals of art, design and expression. Students will use the design process throughout the course and will develop skills in creative thinking and problem solving. Students use a variety of mediums and technology to create a wide range of works.

# FOREIGN LANGUAGE COURSE OFFERINGS

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## **GRADUATION REQUIREMENTS:** 2 credits

### **German Level I**

Grade(s): 10

Credit: 1

Prerequisite: none

German I is an integrated approach to learning the German Language. Students learn and practice functional expressions, vocabulary, and grammar. There is emphasis on pronunciation and vocabulary. Instruction is interwoven with cultural information, language learning tips, and realia to facilitate learning. Technology, audio-visual materials, and print resources are integrated throughout the program. The student will become culturally aware as to become prepared to participate in the global society. Students in German have the opportunity to join the German Club and travel to Europe.

### **Spanish Level I**

Grade(s): 10

Credit: 1

Prerequisite: none

This course is to introduce students to Spanish and Spanish culture. It is designed to develop communication skills and cross-cultural understanding. The class emphasizes basic skills in reading, writing, speaking and listening. In addition to introduce students to essential grammar skills and vocabulary, students will be exposed to various aspects of Spanish culture including the history, geography, customs of Spanish speaking countries and the importance of knowing Spanish as a second language.

### **German Level II**

Grade(s): 11

Credit: 1

Prerequisite: German I

Students in German II will continue their learning of the German language through speaking, listening, reading, and writing. The students will continue to improve these skills and increase their understanding and appreciation of German culture. Instruction is interwoven with cultural information, language learning tips, and realia to facilitate learning. Technology, audio-visual materials, and print resources are integrated throughout the program. This class is taught mostly in German.

# FOREIGN LANGUAGE COURSE OFFERINGS

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## **Spanish Level II**

Grade(s): 11

Credit: 1

Prerequisite: Spanish I

This course is to reinforce and expand the communication skills developed in Spanish I. It is designed to equip students with intermediate skills in reading, writing, speaking, and listening. The program focuses on extending grammatical application, increasing vocabulary, and further developing conversational skills. Students speak and respond in Spanish whenever possible during class. The course content also provides a detailed examination of Spanish culture including history, customs, music, art, literature and well recognizes Spanish speaking people.

## **German Level III**

Grade(s): 12

Credit: 1

Prerequisite: German II

The emphasis of German III is to increase speaking, writing and reading skills. Students will read selected literature from German authors and current periodicals. Much of the class is devoted to speaking German in class discussions, conversations, debates, and skits. Technology, audio-visual materials, and print resources are integrated throughout the program. Students will view selected movies and TV programs in the German language to improve their listening and comprehension skills. This class is taught in German.

## **Spanish Level III**

Grade(s): 12

Credit: 1

Prerequisite: Spanish II

This course is a comprehensive and advanced study of the Spanish language and culture. It is designed to equip students with enhanced skills in reading, writing, speaking, and listening. The program focuses on extending grammatical application, increasing vocabulary, and developing advanced conversational skills. Spanish is spoken almost exclusively during class. The course content also provides a detailed examination of Spanish culture including the history, geography, customs, art, and literature of Spanish-speaking countries. Oral reports, research projects, and short papers (written in Spanish) are a required component of this course.

# PHYSICAL EDUCATION COURSE OFFERINGS

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**GRADUATION REQUIREMENTS:** Health ½ credit / Physical Education ½ credit

## **Health**

Grade(s): 9

Credit: ½

Prerequisite: none

The study of health or our general physical and mental wellbeing is about making wise choices throughout life. In order to make healthy decisions, students will learn about nutrition, disease prevention, mental health, first aide, substance abuse, and how to be physically fit for life. This semester course offers students rich opportunities for analyzing their behaviors and learning ways to create a happier and healthier lifestyle.

## **Physical Education**

Grade(s): 9

Credit: ½

Prerequisite: none

This course is designed to enhance and develop the knowledge of personal fitness, individual and team sports through participation, with emphasis on fair play, basic skills and team work. The knowledge and skills gained in this program will serve to develop valuable use of leisure time for lifelong learning and fitness.

# TECHNOLOGY COURSE OFFERINGS

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## **GRADUATION REQUIREMENTS:** 1 credit

### **Introduction to Microsoft Office**

Grade(s): 9, Credit: 1/2

Prerequisite: none

This course is designed to introduce the student to the basic computing Microsoft programs. Students will cover the main programs with the Microsoft package to become competent in the computing world. The tools and resources gained from this course will be applicable to real world situations. Students will work primarily on the computer to convey understanding of basic technology.

### **Online Experience**

Grade(s): 9, Credit: 1/2

Prerequisite: none

This course is designed to introduce the student to the use of an internet structured course and expand the basic understanding of technology. Students will work primarily on the computer to display basic understanding of technology and the internet as a tool. Students will use Microsoft programs and some Adobe programs to convey their understanding. Students will be able to function using the internet as a tool and the computer.