Marquette Academy High School Course Catalog

Business Courses

Accounting

10,11,12

1 credit

This course is an introduction to the basic concepts and standards underlying financial accounting systems. The course emphasizes the construction of the basic financial accounting statements that can be used as the basis for college level accounting and business courses or preparation for employment.

(Prerequisite - None)

Career Development

11, 12

.5 credit

This one semester course designed to give you a very early start on the process of career planning and development. The process involves thoughtful self-assessment, career exploration, planning and follow-through with preliminary employment strategies.

(Prerequisite - Consent of Administration)

Computer Applications

9, 10, 11, 12

.5 credit

This course will help students learn essential computer applications and Internet technology skills for personal, academic, and professional success. Students will effectively use a current Windows operating system and appropriate file management resources; develop and refine keyboarding skills on computers for speed and accuracy; apply word processing and desktop publishing functions, print, and store common personal and business documents**;** apply spreadsheet functions. Create and edit charts and graphs to interpret spreadsheet data. Design, create, and execute an artistic and professional PowerPoint presentation which includes appropriate text formatting, graphics, animation. Learn to use the Internet in an ethical manner to research, communicate, collaborate, and efficiently retrieve information.

Introduction to Business

10, 11, 12
1 credit

This course is an introduction to the private enterprise system. Topics covered include forms of business organizations, business finance, human resource management, production, entrepreneurship, business ethics**,** marketing, and the changing business environment.

Personal Finance

10, 11, 12
1 credit

This introductory finance course helps students learn basic principles of economics and best practices for managing their own finances. Students learn core skills in creating budgets, developing long-term financial plans to meet their goals, and making responsible choices about income and expenses. They gain a deeper understanding of capitalism and other systems so they can better understand their role in the economy of society.

English Courses

6th Grade English

Sixth Grade English develops foundational reading, writing, grammar, and communication skills through the study of literature, nonfiction, poetry, and other texts. Students will focus on close reading, annotation, main idea, summarizing, inference, textual evidence, characterization, conflict, point of view, theme, figurative language, imagery, tone, mood, symbolism, and author's purpose and craft. Writing experiences include narrative, character analysis, literary analysis, informational, and introductory argumentative writing. Grammar and vocabulary instruction emphasizes sentence structure, parts of speech, agreement, verb tense, punctuation, sentence variety, and context clues. Students will build the skills necessary to become confident readers, organized writers, and thoughtful communicators.

7th Grade English

Seventh Grade English builds upon foundational skills while challenging students to read more critically and analyze how authors develop ideas and meaning. Students will study complex inference, central ideas, textual evidence, character motivation and development, conflict, theme, point of view, perspective, figurative language, imagery, diction, tone, mood, symbolism,

irony, foreshadowing, pacing, structure, and author's craft. Writing focuses on narrative, character and theme analysis, literary analysis, author's craft analysis, and argumentative writing, with an emphasis on developing claims, integrating evidence, providing commentary, and addressing counterclaims. Grammar and language instruction develops sentence variety, phrases and clauses, punctuation, syntax, parallel structure, transitions, and academic vocabulary.

8th Grade English

Eighth Grade English prepares students for high school through advanced reading, writing, research, and communication experiences. Students will develop skills in close reading, interpretation, evaluation, synthesis, character complexity, theme, evidence analysis, point of view, narrator reliability, perspective, bias, figurative language, diction, connotation, tone, symbolism, irony, structure, and author's craft. Writing focuses on literary interpretation, comparative literary analysis, argument, rhetorical analysis, persuasive speaking, and research writing, with an emphasis on developing defensible interpretations, evaluating and synthesizing evidence, analyzing rhetoric, and conducting research using credible sources. Grammar and language instruction emphasizes advanced sentence structure, syntax, diction, voice, style, punctuation, parallelism, transitions, and academic language, preparing students for the expectations of high school English.

Basic English 1

9

1 credit

This course is designed for the review and practice of basic communication skills. Students will focus on improving vocabulary skills, basic literacy skills, grammar use, language mechanics, and composition structure.

(Prerequisite - None)

Basic English 2

10

1 credit

This course is designed for the review and practice of basic communication skills. Students will focus on improving vocabulary skills, basic literacy skills, grammar use, language mechanics, and composition structure. Lessons will include the use of various written materials, such as poetry, plays, and short stories. (Prerequisite - Basic English 1)

Basic English 3
11
1 credit

This course is designed for the review and practice of basic communication skills. Students will focus on improving vocabulary skills, basic literacy skills, grammar use, language mechanics, and composition structure. Coursework will expand on skills learned in previous courses to include novels and author diversity. Students will work on gaining understanding of plots, themes, and character development.

(Prerequisite - Basic English 2)

Basic English 4
12
1 credit

This course is designed for the review and practice of basic communication skills. Included in this course will be the practice and application of vocabulary skills, literacy, grammar, language mechanics, and composition structure, with an emphasis on the practice of job-related and job-seeking skills.

(Prerequisite - Basic English 3)

English 1
9
1 credit

This course emphasizes the fundamental language skills of reading, writing, speaking, listening, thinking, viewing, and presenting. An emphasis on vocabulary and composition skills will be an on-going part of the program. The course includes studies of various literary genres: short story, poetry, novel, drama, and non-fiction. The development of critical reading and writing skills is a major emphasis of the course. Strong attention will be given to the development of composition and critical reading skills.

(Prerequisite - None)

English 1 Accelerated
9
1 credit

This course is a more in depth with higher expectations version of English one which covers more material at a faster pace. This class emphasizes the fundamental language skills of reading, writing, speaking, listening, thinking, viewing and presenting. An emphasis on vocabulary and composition skills will be an on-going part of the program. The course includes

studies of various literary genres: short story, poetry, novel, drama, and non-fiction. The development of critical reading and writing skills is a major emphasis of the course. Strong attention will be given to the development of composition and critical reading skills. This course

is geared for college level preparation and productivity.
(Prerequisite - Entrance exam scores and GPA in previous English courses)

English 2 Literature and Speech

10

1 credit

This course builds upon the 9th Grade Literature and Composition course through a continued focus on the acquisition of reading, writing, speaking, listening, and language skills. Extensive reading of literary and informational texts continues to develop a student's understanding of how to cite strong and thorough textual evidence to support analysis, reflection, and research. Theory and practice of speech communication in one-to-one, small group, and public communication situations are introduced.

(Prerequisite - English 1)

English 2 Accelerated Literature and Speech

10

1 credit

Course Information: This course will involve a considerable amount of reading and writing, as well as various oral presentations (speeches), creative projects, collaborative work, quizzes, and tests. In this course, students will have the opportunity to experience many different types of literature, including fiction and non-fiction texts, short stories, poetry, drama, and speeches. This course will also build on students' prior knowledge of grammar, including mechanics, spelling, sentence structure, and usage. Additionally, students will be introduced to the proper techniques for compiling and composing academic papers, including how to find and correctly cite scholarly sources. Finally, students will learn proper public speaking techniques, including how to write and deliver speeches with visual aids. Materials for this course will be presented in a more in-depth format and proceed at an accelerated pace.

(Prerequisite - Freshman-level English, GPA in English, and teacher recommendation)

English 3 American Literature

11

1 credit

Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character. This course will offer a continued focus on the acquisition of reading, writing, speaking, listening, and language skills as well as the completion of a research paper. (Prerequisite - English 1 and English 2)

English 3 Honors American Literature

11

1 credit

Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from among a diverse group of authors for what they reflect and reveal about the evolving American experience and character. This course will offer a continued focus on the acquisition of reading, writing, speaking, listening, and language skills as well as the completion of a research paper. Particular attention will be paid to writing for college preparation with the expectation of higher level critical thinking and interpretation of materials.

(Prerequisite - English 1 and English 2 and admission to Honors)

English 4 - World Literature

12

1 Credit

This course provides students with the opportunity to explore a thematic approach to the universal ideas found in world and British literature. Selected fiction, nonfiction, poetry, and drama will be explored using all facets of language arts—listening, speaking, reading, and writing. Vocabulary and critical reading reflective of the SAT will also be included. Areas of emphasis in writing instruction include composing essays in a variety of rhetorical modes, including research writing and literary analysis. Seniors will continue developing and fine-tuning their ability to cite thorough textual evidence to support analyses when responding to grade-appropriate complex literary and informational texts in various written and spoken modes. Students demonstrate effective grammar and language application when speaking and writing. Opportunities will be provided for students to apply note-taking to the “lecture” delivery, enabling students to make transitions when encountering lecturing at the college level. An important goal of the class is to promote an understanding of the works in their cultural/historical contexts and of the enduring human values of different literary traditions.

(Prerequisite -English 3)

Writing for Publication

10, 11, 12

1 credit

Students will gain real world experience in the production of published materials. Each student will create assigned pages for the school yearbook. As part of this experience students will focus on the skills needed for effective news writing, photography, and commercial graphics. In addition students will work with publishing software to create page layouts, organize a timeline and budget for production, work with a publishing company on the development of their pages,

submit materials according to publisher deadlines, and publish the school yearbook. (Prerequisite - None)

Fine Arts Courses

Art 1

9,10,11,12
1 credit

This course provides a foundation in art through the exploration of artistic concepts, techniques, and art history. Students will explore the Elements of Art and Principles of Design while developing creative skills through hands-on projects. Through the study of artists, artworks, and artistic movements, students will develop an appreciation for art and its role in culture and society. Students will also explore careers that apply art and design skills across a variety of fields.

Art 2

10, 11, 12
1 credit

This course is designed for students to explore art in greater depth from Art 1, with emphasis on control of art media, tools, technique and creativity. Students will gain a deeper understanding of art concepts using the Elements of Art and Principles of Design. This class will encourage students to look at art analytically and to understand art concepts more thoroughly.

Art 3

11, 12
1 credit

This course for the Fine Art 3 student will be presented with an increasingly individualized instruction as his or her preferences and personal imagery develop. Students will learn about various types of careers in the field of visual arts with the goal of starting to develop a portfolio of their work.

Art 4

12
1 credit

This course is for the serious art student with a special emphasis on portfolio development for seniors who may be in the process of preparing an admissions portfolio for entrance into art school or college. The goal of this course is to continue to develop the individual style of the student and complete a portfolio of cohesive artworks.

Digital Illustration

9, 10, 11, 12
0.5 credit

In this hands-on, computer-based course, students learn Adobe Illustrator from the fundamentals through intermediate techniques while developing skills in vector-based digital illustration. During this one-semester course, students create original artwork and explore techniques for producing illustrations for both web and print. They also learn how Illustrator works with other creative software and how digital artwork is prepared for different applications. These skills provide a foundation for further study and careers in graphic design, digital media, advertising, marketing, illustration, and other creative fields.

Digital Image

9, 10, 11, 12
0.5 credit

In this hands-on, computer-based course, students learn Adobe Photoshop from the fundamentals through intermediate techniques while developing skills in raster- and pixel-based digital imaging. During this one-semester course, students edit and enhance photographic images and explore techniques for combining digital illustrations, photos, and text for both web and print. They also learn how Photoshop works with other creative software and how digital images are prepared for different applications. These skills provide a foundation for further study and careers in graphic design, digital media, photography, advertising, marketing, and other creative fields.

Independent Art

10, 11, 12
1 credit
This course offers an independent study focused on the exploration of various artistic tools and creative methods, including digital art media.

The curriculum of this course will be designed by the student and approved by the teacher. Together they will set specific goals for the course and outline the projects to be completed to meet these goals.

Band

9, 10, 11, 12
1 credit

Students in this course will study and perform music from classical to the modern era. Instrumental technique, phrasing, and solid fundamentals will be emphasized along with music history, theory, and individual direction. Students will be expected to participate in various

performances throughout the year.

Choir

9, 10, 11, 12
1 credit

This course is designed to instruct the student on a variety of choral and vocal techniques. Students will learn about a variety of musical genres as well as music theory, sight singing, and ear training. Students will be expected to participate in various performances throughout the year.

Family Living/Home Economics

Child Development

10,11,12

1 credit

Child Development helps students understand the physical, cognitive, social, emotional, and brain development of children from conception through adolescence. Students will explore how experiences, relationships, and environments influence development and behavior while learning positive, developmentally appropriate ways to guide and support children.

The course also explores the responsibilities of parenting and caring for children. Through hands-on activities, discussions, observations, and real-world experiences, students will develop practical skills useful as future parents, caregivers, teachers, or professionals working with children.

Foods 1

10, 11, 12
1 credit

This course covers nutrition and food preparation in a classroom and lab environment. In addition to learning to use a variety of cooking and food preparation tools students will study wellness, menu planning, special dietary needs, food costs and budgeting, consumer food-buying strategies, food safety and sanitation procedures, food labels, food handling**,** storage, career opportunities and preparation strategies.

Independent Living

10, 11, 12
1 credit

Independent Living prepares students for the everyday responsibilities and decisions of adult life. Students will develop practical skills in areas such as employment, budgeting, banking, taxes, housing, grocery shopping, meal planning, and basic household management.

Through hands on activities, projects, discussions, and real-world simulations, students will practice making informed decisions, managing money and responsibilities, and solving everyday problems. The course is designed to build confidence and provide students with skills they can use as they become more independent.

Introduction to Sewing
10, 11, 12
1 credit
This is an introductory course for people just learning to sew. Students practice making professional-looking garments and other projects through the use of industrial fabrics, threads and sewing machines. This course focuses on the most current, professional sewing techniques used for the creation of manufactured goods. The main objective of this course is learning to stitch fabric together with thread. Students learn to sew by hand and machine. They also study the basic principles of hemming, sewing and adhering add-ons to fabrics. At the end of this course, enrollees are able to read and duplicate patterns and layouts. Students learn how to plan and lay out a quilt. They practice creating decorative patterns and placing fabrics. Lessons address quilting techniques, such as tumbler, log cabin, fiesta, nine-patch and lap. Other topics include rotary cutting and block piecing.

Industrial Technology Courses/Computer Technology

CADD 1 (Computer Aided Drafting & Design)
9, 10, 11, 12
1 credit

This is a beginning course using CADD in mechanical drawing concepts and processes that exposes the student to the basics of drafting. Students interested in engineering and/or any field related to the tech/industrial field should be encouraged to enroll in this course. In 18 weeks, the student will develop skill in using the computer and software using the latest release of AutoCAD. Students will prepare basic mechanical drawings. This is a lab course with emphasis on skill development.

(Prerequisite - None)

CADD II (Computer Aided Drafting & Design)

10,11,12

1 credit

This is a continuation of CADD. I. The same software used in CADD I will be used to create advanced drawings in those areas covered in the beginning course. Having mastered the CAD

software in CAD 1 emphasis will be placed on introducing the students to new types of drawings used in industry.

Prerequisite: Successful completion of CADD I Course Description

CADD III-Engineering Graphics

11,12

1 credit

This is an advanced course in Computer Aided Drafting and Design (CADD) which uses the Autodesk Design Academy suite of software including, three dimensional design software (Inventor) AutoCAD latest versions of software for Computer Aided Drafting and Design work. Autodesk is the number one CAD software used in colleges**,** Universities and modern industry. Only the students who are serious in pursuing a drafting/CADD career or a career in engineering should sign up for this course. The student will complete assignments in advanced multi-view, sectional, and pictorial drawings, 3D modeling and 3D assembly models. In addition, new material will be introduced consisting of projection theory, advanced dimensioning procedures and tolerance, thread and fastener drawings; auxiliary and revolution drawings**;** working and assembly drawings to include 3D assemblies and models. Project will incorporate all the materials studied throughout the course of the year. Prerequisite: Successful completion of CADD II

Foreign Language Courses

French 1

9,10,11,12
1 credit

The basic objectives of French 1 are to help each student attain basic skills in the four skills of listening, speaking, reading, and writing. Contemporary French culture is presented through the use of videos, computers, and other authentic materials.

French 2

10, 11, 12
1 credit

French 2 strives for student proficiency in the four skills of listening, speaking, reading, and writing. Contemporary French culture is presented through the use of videos, computers, and other authentic materials.

Honors French 3

11, 12
1 credit

The course emphasis is on effective communication skills, French culture, and advanced

grammar. Contemporary French culture is presented through the use of videos, computers, and other authentic materials. Students will complete several projects**.**

Honors French 4

12

1 credit

This course emphasizes composition and conversational skills. The students will study French history, short stories, poetry, and plays. Contemporary French culture is presented through the use of videos, computers, and other authentic materials. Students will complete several projects.

German 1

9, 10, 11, 12

1 credit

The basic objectives of German 1 are to help each student attain basic skills in the four skills of listening, speaking, reading, and writing. Contemporary French culture is presented through the use of videos, computers, and other authentic materials.

German 2

10, 11**,** 12

1 credit

German 2 strives for student proficiency in the four skills of listening, speaking, reading, and writing. Contemporary French culture is presented through the use of videos, computers, and other authentic materials.

Honors German 3

11, 12

1 credit

The course emphasis **is** on effective communication skills, French culture, and advanced grammar. Contemporary German culture is presented through the use of videos, computers, and other authentic materials. Students will complete several projects.

Honors German 4

12

1 credit

This course emphasizes composition and conversational skills. The students will study German history, short stories, poetry, and plays. Contemporary German culture is presented through the use of videos, computers, and other authentic materials. Students will complete several projects.

Spanish 1

9, 10, 11, 12

1 credit

The basic objectives of Spanish 1 are to help each student attain basic skills in the four skills of listening, speaking, reading, and writing. Spanish culture is presented through the use of videos, computers, and other authentic materials.

Spanish 2

10, 11, 12

1 credit

Spanish 2 strives for student proficiency in the four skills of listening, speaking, reading, and writing. Contemporary French culture is presented through the use of videos, computers, and other authentic materials.

Honors Spanish 3

11, *12*

1 credit

The course emphasis *is* on effective communication skills, French culture, and advanced grammar. Contemporary Spanish culture is presented through the use of videos, computers, and other authentic materials. Students will complete several projects.

Honors Spanish 4

12

1 credit

This course emphasizes composition and conversational skills. The students will study French history, short stories, poetry, and plays. Contemporary Spanish culture is presented through the use of videos, computers, and other authentic materials. Students will complete several projects.

Humanities Courses

Honors Philosophy

10,11,12

1 credit

An introduction to topics found in classical and contemporary philosophical teachings.

Students will study philosopher's perspectives on age old questions including ideas of right and wrong along with the existence of god.

Mathematics Courses

General Math

9, 10

1 credit

This course reviews basic addition, subtraction, multiplication, and division with whole numbers, fractions, and decimals to build a foundation in computational skills. The student will learn new skills involving rates, ratios, proportions, percents, graphs, geometry, equations, and negative numbers. Students will be able to solve word problems they will use in the modern world.

Pre Algebra

9,10

1 credit

Pre-Algebra builds a mathematical foundation to prepare students for success in Algebra I and II. The course helps students develop good mathematical study skills and learning strategies.

Algebra 1

9, 10, 11, 12

1 credit

This course explains the fundamentals of algebraic problem-solving. Students will explore: foundations of Algebra, solving equations, solving inequalities, an introduction to functions, linear functions, systems of equations and inequalities, exponents and exponential functions, polynomials and factoring, quadratic functions and equations, radical expressions and equations, and data analysis and probability,

Algebra 2

10, 11, 12

1 credit

This course offers a more extensive look at the topics covered in Algebra 1, along with new areas such as sequences and series, complex numbers**,** exponents and logarithms, linear programming, and trigonometric and circular functions. Problem solving will be emphasized. (Prerequisite: Algebra 1**,** Geometry)

Accelerated Algebra 1

9

1 credit

This course studies real number systems (including both rational and irrational numbers), with emphasis on applications such as solving equations and problem situations. Because of the course's advanced nature, the problems will be more difficult and the material more challenging

to support the investigation of optional topics not covered in the standard Algebra 1 course. (Prerequisite: Satisfactory score on entrance exam or teacher recommendation)

Honors Algebra 2
10, 11
1 credit

This course builds on the concepts taught in Accelerated Algebra 1. It covers equations and inequalities, functions, sequences and series, conic sections, permutations and combinations, and other advanced mathematics topics**.** (Prerequisite(s)**:** Honors Algebra 1 and student must have maintained a B average in previous courses or have consent of instructor)

Geometry
9, 10, 11, 12
1 credit

Geometry includes the study of the properties of two- and three-dimensional figures of Euclidean geometry, with emphasis on proofs using deductive reasoning. An introduction to trigonometry will be covered. (Prerequisite: Algebra I)

Accelerated Geometry
9, 10, 11
1 credit

Honors Geometry covers the same topics as geometry, but in greater depth. It also introduces trigonometry and coordinate geometry. This course requires a strong background in Algebra and above-average mathematical ability. (Prerequisite: Honors Algebra 1; student must have maintained a B average in previous courses or have consent of instructor). This class can be taken freshman year concurrently with Acc. Algebra I.

Honors Trigonometry
11, 12
1 credit

Trigonometry reviews and extends right-triangle geometry. Students are expected to learn the six trigonometric functions and their graphs, and to solve various trigonometric equations using trigonometric identities. Students will also study complex numbers, conic sections, logarithmic functions, and matrices. (Prerequisite: Honors Algebra 2, Acc. Geometry)

Honors Pre-Calculus
11,12
1 credit

This course extends Honors Algebra 2 and parallels the mathematics analysis course content

with a more in-depth study of trigonometric functions, including their inverses, vectors, conics (including higher-degree curves), and polar coordinates. Includes an introduction to differential and integral calculus.(Prerequisite: Honors Algebra II; student must have maintained a B average in previous courses or have consent of instructor)

Senior Math

11,12

1 credit

This course integrates all previous mathematics courses and extends this knowledge into new areas. Concepts covered include radicals; linear & quadratic functions and equations; linear systems and inequalities; matrices; graphing polynomials; complex numbers; conic sections; exponential and logarithmic functions; trigonometric ratios; trigonometric equations and identities; and circular functions. (Prerequisite: Algebra 2, Geometry)

Statistics

12

This comprehensive mathematics course begins with a review of sequences and series, probability, and statistics concepts from 8th through 11th grade. Students will strengthen their understanding of foundational statistical skills before advancing to more in-depth topics, including data collection & analysis, measures of center and variation, probability, sampling methods, data displays, correlation and regression, normal distributions, and statistical inference.

Physical Education

Physical Education/Health

9,10,11,12

1 credit

This course will explore the essentials of good health practices looking at the development of the human body. Physical Education is designed to provide students with a well rounded experience that promotes physical fitness.

Physical Education

9,10,11,12

1 credit

Physical Education is designed to provide students with a well-rounded experience that promotes physical fitness, skill development, teamwork, sportsmanship, and lifelong physical activity. The curriculum will provide students with the opportunity to participate in a variety of individual, team, recreational, and fitness-based activities. While emphasizing effort, improvement, cooperation, safety, and active participation.

P.E./Strength and conditioning

9,10,11,12

1 credit

Strength and conditioning is designed to help students develop strength, power, speed, mobility, endurance, and overall physical fitness. Instruction will focus on proper techniques, weight room safety, how to train effectively, and basic training principles. Assessment will be based on effort, participation, technique, and consistency.

Religion Courses

Old Testament - Religion 1

This course will introduce the high school student to the Bible within the context of divine revelation as set out in the Vatican II document, Dei Verbum (Dogmatic Constitution of Divine Revelation). The course will survey the Old Testament and the important personalities showing God's unfolding plan of salvation with the chosen people in preparation for the Coming of Christ. Students will be introduced to historical, prophetic and wisdom literature in the Old Testament. (Prerequisite: none)

New Testament - Religion 1

This course will first focus upon chastity education, presenting friendship, social life, and chastity as keys to maturity in Christian love. Next, it will address the New Testament, Very Early Church History, and Christology. The Christology will be that which comes from the New Testament and Early Church History. (Prerequisite: none)

Sacraments- Religion

Sacraments**:** This course will examine the basic understanding of sacramentality, and provide an advanced understanding of the Seven Sacraments, so that the students may participate more fully in the celebration and reception of each Sacrament.

Introduction to Morality- Religion 2

This course will give the student the knowledge of how we are to live based on what we believe. It is The student will have a thorough grasp of key moral concepts such as: natural law, free choice, grave and slight matter, sufficient knowledge of freedom, character, conscience, sin, moral absolutes, virtue, vice, human fulfillment, the principle of double effect**,** and why one may never do evil in order to achieve good.

(Prerequisite: Old Testament and New Testament)

Christian Life/ Church History - Religion 3

The purpose of this course is to examine, understand and appreciate God's vocation to each member of the Church. This course will examine Church History from the Edict of Milan of AD

312 to the present, seen as a history of salvation, God at work among His people; additional focus will be on salient features of Catholic Church history in North America, and in the Diocese of Peoria in particular. (Prerequisite: None)

Apologetics- Religion 4

Upon successful completion of this course the student will be able to articulate the Church's position on a number of topics as well as the rationale behind why the Church teaches as she does. The course is divided into two parts. The first half is a Christian apologetic: Why believe in God and Christ: The second half is a Catholic apologetic. The second half includes a section on evangelization. The Diocesan Survey Test is administered this semester and successful completion is required for graduation.

Advanced Morality- Religion 4

This course will review the basic moral principles contained in the course on fundamental morality and will expand the student's view of the moral problems which will confront him/her as a mature human being. This course will take up the Christian vision of human sexuality and the problems of living it in the contemporary world.)

Science Courses

Introduction to Agricultural Science

9,10,11,12

1 credit

This course provides an opportunity for students to learn the broad scope of the agriculture industry. Students will explore many segments of the industry and engage in traditional, project-based, and lab-based learning. Topics to be covered include: animal science**,** plant science, soil science, horticulture, natural resources, agribusiness management, and agricultural mechanics.

Advanced Agricultural Science - Plant and Animal Science

10,11,12

1 credit

In the first semester of this course, students will examine major phases of plant growth and management in agriculture and the specific biological science concepts that govern management decisions. Topics of study are in the areas of initiating plant growth - germination**,** plant sensory mechanisms, enzyme action, absorption, and managing plant growth - photosynthesis, respiration, translocation, metabolism, and growth regulation. In the second semester, students will examine major phases of animal agriculture and specific biological science concepts that govern management decisions in the animal industry. Topics of study are

in the areas of growth and development of animals - embryology, ethology, nutrition, immunity systems, and processing animal products--preservation, fermentation, and pasteurization.

Biology

9,10,11,12

1 credit

In Biology, students will learn about the scientific process and engage in units in basic chemistry**,** cells and energy, genetics, hereditary, and evolution. Students will participate in labs, classroom activities, and lectures to gain an essential understanding of how living organisms work. This class is meant to serve as a foundation for further learning in science.

Accelerated Biology 1

9,10

1 credit

The student will study general aspects of Biology. The course of study will follow an introduction to Biology including a somewhat comprehensive unit of organic and inorganic chemistry as a basis of physiological processes. It will also include a survey of organisms, physiology of life processes, genetics, evolution (using the Heterotroph Hypothesis), and environment. Continued focus on student centered labs with emphasis on safety and technique and accurate recording of data, cooperative learning, have broadened the scope from strictly text driven to use of newspapers, journals, reference books, and the Internet. (Prerequisite: none)

Accelerated Biology 2

10,11,12

1 credit

This course includes an intensive study of general and specific aspects of Biology with emphasis on the chemical basis of life. It will include a unit on the biochemical compounds that make up living things. It will also include an in-depth study of the taxonomic groups**,** cell structure, genetics and physical anthropology.. This course is taught as an introductory college-level course. (Prerequisite: Chemistry I and Biology I and Student must have maintained a B average in previous courses or have consent of instructor)

Honors Chemistry 1

10,11,12

1 credit

This course is offered to students who have successfully completed Honors Biology. The course is an Intensive study exploring concepts of matter, energy, atomic structure and bonding, chemical formulas, chemical equations, chemical kinetics, chemical reactions, mole concept, chemical periodicity, chemical bonding, properties of matter, and energy relationship. This course will move at a more intense pace and will look more thoroughly at the topic of chemistry

than a regular chemistry course. Students will be taught safe and efficient handling of laboratory apparatus and equipment. (Prerequisite: Algebra 1/Honors Algebra 1 and Student must have maintained a B average in previous courses or have consent of instructor)

Honors Chemistry 2

10,11,12
1credit

This course is for the student looking to expand upon his or her chemistry knowledge. After a review of Chemistry 1 concepts, the course will cover properties of gases, liquids and solids, as well as mixtures and solutions. Equilibrium reaction, acid and base reactions and quantitative solubility will be covered in detail as well as Thermodynamics. Basic Organic Chemistry will be introduced. (Chemistry I, Algebra I & II Co-requisite and Student must have maintained a B average in previous courses or have consent of instructor)

Earth Science

9,10,11,12

1 credit

This course will focus on the chemistry of the earth. This course will investigate the composition of the earth and how reactions between the elements create rocks and minerals. The students will focus on the earth's process of rock formation, oceanic activity, and how earthquakes and volcanic activity are related to this process. (Prerequisite: World Geography)

Ecology

10,11,12

1 credit

The course will deal with the complex issues facing the environment today. Students will study natural ecosystems, how they form and are balanced, and how they evolve **or** change. Attention will be paid to individual animals, their habitats and niches, as well as the real issues and challenges relating to an expanding human population. Outside work to beautify the environment will be a regular part of the class. (Prerequisite: Sophomore Standing)

Environmental Science

9,10,11,12

1 credit

This course examines the relationship of agriculture and the environment. The impact of plant and animal production practices on the environment and the adoption of practices leading to improved air, land, and water quality are investigated. Areas of emphasis include: types of ecosystems, management of waste, chemical use, soil conservation, land uses and regulations, and water and air quality.

Floriculture

10,11,12

1 credit

This course provides students with an extensive understanding of floriculture and hands on experience in floral design. Units will include introduction to the floral industry, basic botany, floral supplies and equipment, principles of floral design, color and symmetry, construction and mechanics of floral design, selection and judging, floral crops, preparation and care of flowers and foliage. Students will have the opportunity to participate in floral design competitions as well as FFA membership through their enrollment in their course.

Integrated Science

10,11,12

1 credit

This course is designed as an introductory science course. The Class will cover a basic overview of Biology, Chemistry and Earth Science. Topics that will be covered include the cell, plant processes, heredity, genes, DNA, history of life on earth, maps and models, minerals, rocks, fossils, the Earth's Ecosystems, Earth Cycles, plate tectonics, earthquakes, volcanoes**,** matter, elements and compounds, atoms and states of matter. The course will **be** a combination of lecture, labs, and demonstrations, the metric system, and the use of simple measuring instruments. (Prerequisite: None)

Physical Science

11,12

1 credit

Physical Science introduces students to the fundamental concepts of chemistry and physics through hands-on investigations, laboratory activities, and real-world applications. Students will explore topics such as matter, energy, forces, motion, electricity, waves, and chemical reactions while developing critical thinking, problem-solving, and scientific inquiry skills. This course provides a strong foundation for future science courses and helps students understand the role of science in everyday life.

Honors Physics - Mechanics

10,11,12

1 credit

Physics is the most complete of all sciences. It provides a detailed description of physical phenomena, based on universal principles stated in the concise and powerful language of

mathematics. It is required for the student considering a career in medicine, engineering, or science. This class will cover the physics of Mechanics, including kinematics (the study of motion), Force balances, Newton's Laws, conservation of energy, momentum, conservation of momentum, and torque. The class will present an introduction to integral and differential calculus and vectors in their application to Newton's Laws. (Prerequisite: Honors Chemistry, Pre-Calculus (preferred) and student must have maintained a B average in previous courses or have consent of instructor)

Honors Physics - Electricity and Magnetism

10, 11,12

1 credit

The field of physics covers many scientific principles ranging from mechanics to nuclear physics. This class will focus on the science of physics and present several physics fields including fluid statics, fluid dynamics, heat transfer, electricity, magnetism, wave motion, and thermodynamics. This class will present algebra-based mathematical descriptions of these physical processes. (Chemistry I, Algebra I & II Co-requisite and Student must have maintained a B average in previous courses or have consent of instructor).

Social Science/History Courses

Economics

12
.50 credit

Economics is the study of the choices and decisions people make about how to use the world's resources. Understanding economics will help the students make informed decisions for themselves and assess the decisions made by others. The course is designed to help the students understand key economic principles and to show the students those principles in action in the real world. (Prerequisite: None)

World Geography

9 ,10
.50 credit

This course teaches students about the world in which we live. It focuses on space, resources, and people. To help students become more proficient learners of geography, basic map and study skills will be introduced, practiced and reviewed throughout the semester. (Prerequisite: None)

State and local History

10
.50 credit

This social science course will focus on local and state history. It will cover Ottawa and Illinois history from prehistoric times to the present. Topics the students will study include Native American Indians, European exploration and immigration, the growth of cities, the wars, state geography, politics, and Illinois economics. The Illinois constitution will be given as part of this course. One day a week will be spent on current events. (Prerequisite: None),

United States History

11
1 credit

This course covers the history of the United States from the Age of Discovery to the present. Material may be presented in either chronological or topical units. (Prerequisite: None)

Modern American History

9,10,11,12
0.5 credit

This course will provide the student with the academic background needed to analyze the country in which he or she lives today. Many of the laws, attitudes and political cycles that are prevalent today stem directly from events that have happened between the time period of 1945 *to* the present. The course will span Truman's decision to drop the Atomic bomb to the Cold War, the Korean Conflict, The Kennedy assassination, Civil Rights, Vietnam, Watergate and the impact of Middle Eastern politics. The course will also be an in depth study of modern day Presidents. The course will prepare the student to achieve and succeed in college American History II courses. The student should also be able to learn and appreciate current events. (Prerequisite: None)

World Hisotry

9, 10, 11, 12
1 credit

This is a two-semester course that will focus on the key points of human history and those individuals who changed the world either for good or evil. The course will deal with human development with special reference to man's social and political development, and the development of technology and its effect on human behavior. (Prerequisite: None/Highly recommended for the college bound student.

American Government

12
0.5 credit

This course is designed to give students the knowledge necessary to be responsible citizens. The students will study the 3 branches of government, their systems, and how the American system was established will be researched. The importance of political parties and elections will be stressed. State and local government will be studied. The students will also learn to be

intelligent voters. The test over the State and Federal Constitution, Declaration of Independence, and Flag Code, which are required for graduation will be administered. (Prerequisite: United States History)

Psychology
10, 11, 12
0.5 credit

This is an introductory course. It deals with the analysis and description of human behavior with special reference to learning, memory, thinking**,** emotional life, personality development, and therapy. The emphasis is on psychological principles as they relate to daily life. (Prerequisite: None)

Sociology
11, 12
0.5 credit

This is an introductory course that deals with social problems, social institutions, social change, group behavior, and social interaction. Sociology is the scientific study of society and the social activity of human beings. We will study social institutions such as schools, the family, government, poverty, crime, and cultural variation. (Prerequisite: None)

ADDITIONAL EDUCATIONAL OPPORTUNITIES

ACC- Area Career Center- The LaSalle/Peru/Ottawa Area Career Center specializes in providing a structured pathway to further a students education or transition into an exciting career after high school. Course work or training is available in the following areas:Automotive, Aviation, Building Trades, CAD, Cosmetology, Culinary Arts, Early Childhood Education, Fire Science, Emergency Medical Response/EMT, Health Occupations, Machining, Residential Wiring and Welding.

INDEPENDENT STUDY

Independent study is available to students who wish to pursue advanced work in a subject area under the direction of a member of the Marquette faculty. Independent study is for the strong academic student who wishes to pursue an area of guided study in a personally developed and designed program.

IVCC CLASSES

Illinois Valley Community College dual credit courses are available to juniors and seniors who

have a minimum cumulative grade point average of 3.0. Students who qualify may take part in the following programs

Running Start- Associate of Art or Associate of Science degree (60 credit hours)
IAI Certification- General Education Certification (43 credit hours)
Dual Credit

Dual Credit Courses Include:
English Comp I & II (prerequisite: IVCC placement testing)
Speech
Speech
Strategies for Success
Economics- Micro or macro
American National Government
Sociology
Psychology
Art Survey
Introduction to Theatre
Music Appreciation
Health and Wellness
Personal and Community Health
Western civilization I & II
US History I & II
Chemistry
Biology
Global Environment
Child Growth and Development
The Exceptional Learner (education course)
Calculus I & II (prerequisite: IVCC placement testing)
College Algebra (prerequisite: IVCC placement testing)
Statistics (prerequisite: IVCC placement testing)
Pre-Calculus (prerequisite: IVCC placement testing)
Art of Film
Introduction to Business
Geography

WORK STUDY- CO-OP
12
1 credit

This course or program provides on the job training in a skilled occupation, taken at sites pre-established by the administration.

IVCC Speech

Description: A 3-credit-hour course in the fundamentals of speech given to audiences, emphasizing effective research, organization, and delivery of various speech styles including informative, commemorative, and persuasive speeches. (Each credit hour of this class requires 45 hours of study.) IAI: C2 900

Objectives: This course is intended to introduce you to the various aspects of public speaking, including:

1. Orientation
2. Communication Apprehension
3. Ethics of Public Speaking
4. Types of Public Speeches
5. Research
6. Preparation and Organization
7. Presentation
8. Listening
9. Audience Analysis
10. Language
11. Technology & Visual Aids
12. Small Group Communication