

Ladywood High School

Course Selections 2017-2018

Mission Statement

Ladywood High School is a Catholic, college preparatory school sponsored by the Felician Sisters following the Franciscan tradition. We are a community of administrators, faculty, staff, parents/guardians, and students who witness Christ to the world through the pursuit of knowledge, the understanding of Truth, and by our actions of Service to society.

Academic Policies

A complete description of each course offered at Ladywood High School is contained in this Course Curriculum Guide. All students must be full-time students at Ladywood and must take a minimum of seven classes each semester. Students may not be enrolled in more than one study hall per semester unless authorized by Administration. Parents and students are encouraged to read and utilize this information to make informed choices about course offerings for the following school year in light of future goals, academic readiness, and graduation requirements.

Scheduling Process

Students are encouraged to talk to their teachers and their counselors to gain an understanding of the courses available, their ability to handle the course work, and their standing in relation to graduation requirements. Students and parents should discuss future goals and areas of interest when choosing classes they think would be most beneficial in meeting these goals. Teachers will recommend course placement based on compliance with prerequisites and standardized test scores in addition to student achievement. Student's Course Selection Forms with a parent signature must be turned in by the designated return date. Students who turn in late or incomplete forms will jeopardize their chance to receive their first-choice course requests since they will be scheduled later. Once the forms are collected, entered, and verified, schedules are sent home for confirmation. If a parent wishes his/her daughter to be placed in a course that she has not received a recommendation to enroll, an academic waiver slip must be filled out and turned in with the course registration form. Waivers are available in the Guidance Department. If an insufficient number of students request a course, the course will be dropped. In this case and when classes are full, the Dean of Students and counselors will look for an alternate course to complete a student's schedule. Ladywood will allow students to change a class with the approval of the Head of School, Dean of Students, counselors, teachers, and parents, within a limited time frame to accommodate placement in the accurate level of a class. In this case, the change can only occur if there is a space in the new class.

Christian Service Program

The Christian Service Program is designed to help students of Ladywood become a people of compassion and knowledge, a people committed to justice and a people for others. During their four years at Ladywood, students will complete a minimum of eighty-five hours of service to the community and the world.

- Requirements:
 - Freshmen: 15 hours
 - Sophomores: 20 hours
 - Juniors: 25 hours
 - Seniors: 25 hours

Admission to College

Ladywood High School is accredited by the North Central Association (AdvancEd) of Colleges and Secondary Schools and the National Catholic Education Association. Credits earned at Ladywood are recognized at any college in the United States. However, being accepted to the University of your choice depends upon many things. Among these considerations are the following:

1. Whether or not you meet all the basic entrance requirements such as the combination of subjects taken, level of scholastic achievement, and acceptable entrance examination scores.
2. Your personal qualifications such as your participation in sports, clubs, service activities, and your leadership and character.
3. Whether or not you submit your application materials on time.

To get into the college of your choice, it is essential that you start planning early enough to meet all subject and grade requirements. Guidance should be sought from parents, counselors, and teachers.

Curriculum Requirements for Graduates

All students must carry a minimum of 7.0 credits per year. Successful completion of these minimum requirements is necessary for grade placement and/or graduation.

Graduation from Ladywood requires successful completion of at least 26.00 credits, which must include the following:

- 4.00 credits in Theology**
- 4.00 credits in English**
- 4.00 credits in Mathematics**
- 3.00 credits in Social Studies (Global Studies, American History, Economics, and Government)**
- 3.00 credits in Science (Biology, Chemistry or Physics, and one additional science credit)**
- 1.00 credit in Physical Education and Health**
- 1.00 credit in Fine Arts (Music/Art)**
- 1.00 credit in Computer Technology**
- 2.00 credits in World Language**
- 3.00 credits in electives**

In order to confirm acceptance for an Advanced Placement course, students must have a 3.5 G.P.A. and/or permission from the department chairperson. Students must also attend a mandatory meeting covering rules and commitments regarding Advanced Placement courses.

Online learning experiences are offered upon a student's request. Students registered in these courses assume all associated responsibilities including financial obligations.

Technology Department

The mission of the Ladywood Technology Department is to build a solid foundation in technology skills that will prepare the student for post- secondary study, entry level business career, or general knowledge in adherence with the mission of Ladywood High School.

Computer Applications I

Grades: 9, 10

Credit: 0.5

This course is designed to teach students fundamental technology skills. The students acquire word processing skills needed to efficiently produce professional quality documents. Proofreading skills will be stressed. The students will use Office 365 to organize and store documents in a cloud environment. Principles of digital citizenship will be introduced and students will be expected to apply these principles when using technology outside of the classroom experience.

Computer Applications II

Grade Level: 9-11

Credit: 0.5

The primary objective of this course is to acquaint students with the proper procedures to create spreadsheets, databases, and presentations suitable for course work, professional purposes, and personal use. This exercise-oriented approach allows students to learn by example and hands-on assignments, and it encourages independent study. Students will continue to work with Office 365 and apply principles of digital citizenship throughout the course. Prerequisite: Computer Applications I.

Computer Programming I

Grade Level: 10, 11, 12

Credit: 0.5

Students will be introduced to computer programming using Alice, a 3-D programming language that allows students to produce animation for creating applications, interactive games, or making videos to share on the web. It uses 3D graphics and a drag-and-drop interface to facilitate a more engaging programming experience. Students will be introduced to variables, functions, strings, arrays, decision structures, repetition structures (loops) and object oriented, event driven concepts. Prerequisite: Computer Applications I and II

Computer Programming II

Grade Level: 10, 11, 12

Credit: 0.5

Programming II introduces students to the Python programming language. This class allows students to continue to develop the programming and problem solving skills that were covered in Programming I using the Alice drag and drop interface. Python is an easy-to-learn and increasingly popular object-oriented language, which allows students to become comfortable with the fundamentals of programming and prepares them to transition into more complicated languages. Students gain confidence in their skills and learn to recognize the logic behind developing high-quality programs. Topics include control structures, functions, arrays, pointers, objects, and classes. Students will design, code, and test small Python programs that meet specified requirements. Prerequisites: Computer Applications I and II, Programming I

Yearbook I (Elective Only)**Grade Level(s): 10, 11, 12****Credit(s): 0.5**

This course is a hands-on, workshop course designed to teach students the necessary skills to produce a school yearbook. Tasks include: page and layout design; writing copy, captions, and headlines; photography; conducting interviews; and sales and marketing. Students should expect to allocate time after school hours to cover school events and complete pages. Deadlines are critical in this class, and will affect grades. Yearbook I is responsible for the coverage of student life and sports throughout the school year. Students are considered photo journalists at this level.

Yearbook II (Elective Only)**Grade Level(s): 11, 12****Credit(s): 0.5**

This course is a continuation of Yearbook I, and requires the same task-completion as Yearbook I. Additional responsibilities may include: mentoring of Yearbook I students, organizing sections of the yearbook, editing and proofreading pages, and distribution of the completed book. Students should expect to spend time outside of class to gather information, attend school events for coverage, and complete pages on a deadline. Deadlines are critical and will affect grades. Yearbook II is responsible for the coverage of student life and sports throughout the school year. Students are considered photo journalists at this level.

Yearbook III (Elective Only)**Grade Level(s): 11, 12****Credit(s): 0.5**

This class is a continuation of Yearbook II. Students in Yearbook III are responsible for everything not covered in Yearbook I-II, including: theme pages, dividers, and exclusive pages. Students will also be expected to edit and proof the final pages before submission to the publisher. Students should expect to spend time gathering information outside of class, attending school events for coverage, and meeting deadlines, all of which will affect grades. Students are considered photo journalists at this level, but may be assigned special roles as editors if deemed appropriate by the advisor. Juniors in Yearbook III may be selected as Junior Editors, and prepare to take on the role of Editor-in-chief/Managing Editor senior year.

Yearbook IV (Elective Only)**Grade Level(s): 12**

Credit(s): 0.5

Yearbook IV and V can only be taken by seniors with a year and a half of yearbook experience. Editor roles will be assigned to students based on the student's interest and the teacher's experience knowledge of the student's motivation and skills. Editor positions include: Editor-in-chief, Head Photographer/Managing Editor, Coverage Editor, Sports Editor, Copy Editor, Design and Layout Editor, Section Editors, or Business Manager. Editors oversee the yearbook staff, and overall production of the yearbook. Editors choose the theme and feel of the yearbook, and are expected to do whatever is necessary to complete an extraordinary yearbook. Editors will be responsible for decision-making and problem-solving, but also complete tasks including: theme pages, dividers, exclusive pages, and any other tasks needed. Students will finalize pages before submission to the publisher.

Yearbook V (Elective Only)**Grade Level(s): 12****Credit(s): 0.5**

Yearbook IV and V can only be taken by seniors with a year and a half of yearbook experience. Editor roles will be assigned to students based on the student's interest and the teacher's experience knowledge of the student's motivation and skills. Editor positions include: Editor-in-chief, Head Photographer/Managing Editor, Coverage Editor, Sports Editor, Copy Editor, Design and Layout Editor, Section Editors, or Business Manager. Editors oversee the yearbook staff, and overall production of the yearbook. Editors choose the theme and feel of the yearbook, and are expected to do whatever is necessary to complete an extraordinary yearbook. Editors will be responsible for decision-making and problem-solving, but also complete tasks including: theme pages, dividers, exclusive pages, and any other tasks needed. Students will finalize pages before submission to the publisher.

Business Department

The mission of the Ladywood Business Department is to build a solid foundation in business principles that will prepare the student for post-secondary study, entry level business career, or general knowledge in adherence with the mission of Ladywood High School.

Business Principles**Grade Level(s): 10, 11, 12****Credit(s): 0.5**

This course is intended to introduce students to the world of business. Topics include entrepreneurship, the structure of business organizations, and basic business functions such as accounting, finance, management, human resources and marketing, international business, and the stock market. The course also covers international business and the stock market. Students will also be introduced to various careers in business. The class is designed to be helpful to students as individuals and as background for future business courses.

Accounting I**Grade Level(s): 10, 11, 12****Credit(s): 0.5**

Accounting I introduces students to the introductory principles of accounting and provides students with a solid foundation for understanding personal and business financial transactions. Students will learn accounting principles and procedures required to complete the entire accounting cycle for a service business organized as a sole proprietorship. They will record various transactions and prepare financial reports. Automated accounting is also introduced using QuickBooks to supplement each chapter.

English Department

The English Department at Ladywood has created a sequence of courses grounded in the goals of having students write comfortably and confidently, read widely for both pleasure and information, and think critically about ideas placed before them. Through a classic curriculum, students will be challenged to achieve high classroom expectations and build a highly developed structure of knowledge that will accompany them throughout their lives. Each course will present the course material through a variety of technologies to accommodate all student learning styles and in keeping with the Felician Core Values of Respect for Human Dignity, Compassion, Transformation, Solidarity with the Poor, and Justice and Peace.

Language and Literature

Grade Level(s): 9

Credit(s): 1.0

This course is intended to provide students with a solid foundation that will help them respond to literature in personal, analytical, and creative ways. Students will read a wide variety of genres and explore numerous writing styles and techniques. This class focuses on basic writing and research skills, literary analysis, grammar review, vocabulary improvement, and formal and informal presentations.

Accelerated Language and Literature

Grade Level(s): 9

Credit(s): 1.0

This course is intended for students who already possess a strong background in English. They will continue to develop their skills and respond to literature in both critical and creative ways. A wide variety of genres and writing styles will be explored. The class moves at a fast pace, with a strong emphasis on reading and writing. This class focuses on writing and research skills, literary analysis, grammar review, vocabulary improvement, and formal and informal presentations.

Comp/Lit and Speech

Grade Level(s): 10

Credit(s): 1.0

The purpose behind the Comp/Lit and Speech class is threefold. The purpose of the literature portion of this class is to further expose students to different genres of literature within the British Literature format. Themes and structures within these different works will be examined and discussed. Also, a variety of writing and presentational formats pertinent to the discussion of literature will be examined and used. Vocabulary and grammar review will be used to build stronger writing and presentation skills. The purpose of the composition portion of this class is to

familiarize the students with a variety of writing styles pertinent to the communication of ideas. And finally, the purpose of the speech portion of this class is to introduce the students to the components of communication to assist them in preparation: selecting a topic, researching, organizing, and delivering, for a variety of speaking situations to build confidence and assist the students in dealing with the physical sensations associated with stage fright in order to build stronger presentational skills.

Accelerated Sophomore English

Grade Level(s): 10

Credit(s): 1.0

Accelerated British English is an in-depth genre course with an emphasis on rhetoric and composition skills. Students also analyze British literature through discussion and write in response to the literature. Literary terms, devices, and the author's individual style are examined. The modes of writing, writing techniques, literary analysis, and the expository essay are taught. In addition, active listening, speech preparation, and oral presentation are taught with an emphasis on research, organization, and presentation as major goals. Vocabulary skills are taught in conjunction with the readings.

American Literature

Grade Level(s): 11

Credit(s): 1.0

American Literature is the study of a variety of genres by diverse authors from the early settlement of America to the present. Students will respond to the texts both critically and creatively. Students will write a number of responses and literary analysis essays. This course also includes a research paper to be completed, using a topic directly connected to American Literature with the purpose of offering the student the opportunity for intense study within the confines of the curriculum. Students will use technology to read texts, write responses, engage in discussions, complete activities, and conduct research. Outside reading of novels and plays by American authors and playwrights is also required.

Accelerated American Literature

Grade Level(s): 11

Credit(s): 1.0

Accelerated American Literature is intended to increase the student's appreciation of American Literature by moving at a faster pace. Students will study a variety of genres from the early settlement of America to present. In the accelerated course, students will go far beyond the comprehension level into analysis, synthesis, and evaluation. Students will be encouraged to not only read their texts, but also "work" their texts for deeper understanding. Thus, students will write analytical essays and critical responses. This course also includes the writing of a longer research paper. Students will choose a topic that will offer them the opportunity to learn the writing process involved in writing the research paper. Students will use technology to read texts, write responses, engage in discussions, complete activities, and conduct research. Outside reading of novels and plays by American authors and playwrights is also required.

AP English

Grade Level(s): 12

Credit(s): 1.0

This course is a college-level course in literature offered to students who have both a solid aptitude and interest in English. Students will study a wide variety of literature and respond to it in creative and critical ways. Literary analysis, essay writing, and discussion are strongly emphasized. Students will also prepare for the Advanced Placement English and Literature Exam given in the spring of each year. Prerequisite: 3.5 G.P.A. in English class and English Department approval.

Mythology (Not offered this 2017-2018)**Grade Level(s): 11, 12****Credit(s): 0.5**

Mythology is the study of classical Greek and Roman myths. Some Norse and world myths may be incorporated. Emphasis will be placed on students developing an analytical and interpretive approach to mythology. Students will compare the values, traditions, and beliefs of past societies to one another and to today's world during their examinations of the myths. They will have the opportunities to explore the imaginations of past storytellers and to foster their own creativity. Reading selections will include Hesiod's *The Theogony*, *Homeric Hymns*, Tales of Pre-Trojan War Heroes, Homer's *The Iliad* and *The Odyssey*, and Virgil's *The Aeneid*. The students will be able to use their knowledge of mythology to identify allusions in and to further study literature, poetry, drama, history, and art.

College Writing - Portfolio**Grade Level(s): 11, 12****Credit(s): 0.5**

This course is designed for students who are preparing for college and the demands of college writing. Over the course of the semester, the students will examine and practice various kinds of writing, formal and informal. They will explore a variety of topics through the following types of writing: definition, comparison and contrast, essay-question responses from the textbook, analysis, and argumentative. In addition, they will write imaginatively, such as narrative. Students will also be exposed to and required to analyze a variety of media sources, such as Internet, movie, music, and literature. Peer response and peer evaluation will be an integral part of this writing workshop and the learning that is done. Students will, consequently, be sharing their writing regularly.

Poetry and the Short Story**Grade Level(s): 11, 12****Credit(s): 0.5**

This course focuses on the study of poetry and short stories. Students will examine a wide variety of both genres, both as a reader and writer. Creative and critical writing as well as literary analysis are strong components.

Women in Literature**Grade level(s): 11, 12****Credit: 0.5**

This course is designed to celebrate the writings of female authors throughout history. It will focus on the portrayal of women and how it has been affected historically and geographically

affecting their individual writing styles. The students will discuss the struggles of women throughout history and the current issues today. The students will see how our gender identities and roles have been altered throughout different literary movements and in different cultures. Students' writings will focus on the research and discussion of gender roles throughout history, women's issues and concerns, response to themes and the overall text, and other formal writing assignments. Students will perform these tasks while reading a variety of genres: poems, short stories, novels, autobiographies, and essays.

Fine Arts

Visual Arts Division

The Art Department seeks to immerse students in both the technical as well as creative dimensions of multiple media. Developing skills as well as creative insight and critical abilities, each course builds upon its precursor by introducing students to artistic theories, historical examples, multiple materials, and an emerging personal and social artistic vision. Technology is used every day in art and ceramics. Students are required to do research and acquire resource images for all of their projects. Students are also exposed to emerging technologies, such as the 3D printer.

Beginning Art

Grade Level(s): 9, 10

Credit(s): 1.0

Beginning Art is a two-semester course that fulfills the Fine Arts credit graduation requirement. This course offers an introduction to art history and a comprehensive full year studio experience. Students explore drawing, painting, and sculpture through a series of classroom projects. Critical thinking and conceptual development are emphasized in this introductory studio experience. Beginning Art is the prerequisite for all Ladywood High School upper level art courses.

Intermediate Art

Grade Level(s): 10, 11, 12

Credit(s): 0.5

Intermediate art will emphasize the meaning in art. Students will have the opportunity to express themselves through paint, photography, drawing, collage and appropriated images to create art work that has a narrative and personal meaning. This course emphasizes tools, color theory and technique.

Advanced Art

Grade Level(s): 10, 11, 12

Credit(s): 0.5

Advanced art offers students the opportunity to independently develop their own work; all projects will be chosen by the student and guided with individual instruction. Students will master painting and drawing while using photography, technology, mixed media and design. Students will determine their own syllabus.

AP Studio Art

Grade Level(s): 12 with Instructors Permission

Credit(s): 1.0

AP Studio Art is an accelerated college level studio art course. All students enrolled in this course will be expected to produce twenty-four original pieces of artwork to complete the AP Studio Art Drawing portfolio. The portfolio will consist of 12 pieces of exceptional work with a specific developed personal concentration, 12 pieces will demonstrate a breadth of top-quality experimentation and mastery of multiple mediums during the process of examination of the concentration. The top 5 pieces of work that exemplify top quality, express a realized concentration and display a breadth of variety in materials will be submitted for presentation during the final portfolio review. All students enrolled in AP Studio Art Drawing will participate in classroom and individual critiques. Original portfolios and web sites will be carefully constructed through investigation, teacher instruction and exploration. Students will define and develop an original personal concentration that consists of individual concerns and coarse research, journaling, research and ongoing teacher assessment. Within the concentration students are expected to verbally and visually describe personal intentions in their own authentic visual language. The breadth of experimentation should show coherent, top quality artwork that is related to the concentration in a variety of materials. Documentation of artwork will be made for the final portfolio during the course of the school year to determine growth while work is being critiqued and assessed. AP students must submit the final portfolio to the AP board for examination at the conclusion of the course.

Ceramics I**Grade Level(s): 10, 11, 12****Credit(s): 0.5**

Ceramics I is an introductory course that explores basic hand-building techniques, history of clay, and different types of glazing methods. No clay experience is necessary however there is a pre-requisite of Beginning Art.

Ceramics II**Grade Level(s): 10, 11, 12****Credit(s): 0.5**

Ceramics II continues and expands on hand-building techniques, glazing, and under-glazing method learned in Ceramics I. The student will be able to explore personal style and creativity, while building a wider range of projects.

Ceramics III**Grade Level(s): 11, 12****Credit(s): 0.5**

Ceramics III is an advanced course and is designed to further develop technical and creative skills in clay. The students will have an opportunity to work with different clay bodies and decorative glaze methods. There may be opportunities to work on the wheel.

Ceramics IV**Grade Level(s): 11, 12****Credit: 0.5**

Ceramics IV will emphasize development of ideas, advanced hand building techniques, working with a clay extruder, wheel throwing, glass fusing, and glass slumping. Students will also learn about alternative firing techniques such as pit firing

Ceramics V

Grade Level(s): 12

Credit: 0.5

Ceramics V Students will create a set of projects based on a type/style of pottery they would like to explore. Examples could be wheel throwing, abstract sculpture, alternative firing processes, slip trailing, 3D printing and ceramics, mold making. The course is designed for advanced students who can work on projects independently and critically evaluate their own work and make adjustments to their projects.

Performing Arts Division

The Performing Arts Department at Ladywood seek to stimulate musicianship and to enrich students' lives through a greater appreciation of the role of music and acting in society and in life. Students are encouraged to challenge themselves to learn how to perform on some level of musical proficiency whether that be through the acquisition of instrumental skills or through formal training in singing.

Music Theory & Vocal Technique I & II

Grade Level(s): 9, 10, 11, 12

Credit: 0.5

This class will provide an opportunity for students to learn an in-depth view of music from various eras while developing vocal technique and correct elements of presentation. In addition to vocal performances, students will be expected to complete writing assignments that pertain to their analysis of music. This class will be geared toward all students' level of music background. Attendance at both dress rehearsals and concerts are mandatory. This class is also expected to sing at regularly scheduled Masses.

Concert Orchestra I, II, III, IV

Grade Level(s): 9, 10, 11, 12

Credit(s): 1.0

The orchestra performs classical and popular music and is open to all interested students who have some experience playing string, wind, brass, and percussion instruments. Emphasis is placed on ensemble playing, control technique, expression, music theory, rhythm, and sight-reading. Interested students are encouraged to prepare and perform at solo & ensemble festivals. Attendance at all concerts and additional performances is a requirement of the course. Private lessons are highly recommended.

Mathematics Department

The Mathematics Department believes that every student should be provided with the opportunity to enhance and develop mathematical skills and concepts. We believe that

mathematics is vital to the development of thinking, questioning minds. We strive to create a program that is challenging, exciting, and driven by student needs. We hope that every student will be able to apply mathematics to the challenges encountered after high school and will be able to use mathematics to solve real-world problems. We strive to make students aware that discipline and hard work are as important as ability in the study of math.

Algebra I

Grade Level(s): 9

Credit(s): 1.0

This course will cover the topics of the average first year algebra course. These topics will include the real number system and its properties, methods for solving equations, factoring polynomials, graphing, problem solving, and the quadratic formula.

Accelerated Algebra/Geometry

Grade Level(s): 9

Credit(s): 1.0

This course is an intensive study of Algebra I and Geometry to be covered in one school year. The topics to be covered will include the real number system and its properties, methods of solving equations, factoring, polynomials, graphing, and problem-solving. In Geometry, the topics will include spatial relationships as well as inductive and deductive reasoning, the axiomatic system, formal proof, plane and solid geometry, including lines, angles, triangles, polygons, circles, coordinate geometry, and an overview of trigonometry with the study of right triangles. A strong background in Algebra I is recommended. Prerequisite: Recommendation.

Geometry

Grade Level(s): 10

Credit(s): 1.0

This course is a detailed study of spatial relationships. The student will learn inductive and deductive reasoning. The axiomatic system will be studied, and formal proofs will be covered in this course. Plane and solid geometry will be studied as well as lines, angles, triangles, polygons, circles, and coordinate geometry.

Algebra II

Grade Level(s): 10, 11

Credit(s): 1.0

Algebra II is a detailed study of the structure of the real and complex number systems. This course will include a study of functions, polynomials, exponential and logarithmic functions, trigonometric functions, conic sections, sequences and series, and the Binomial Theorem.

Algebra II A/Algebra II B

Grade Level(s): 11, 12

Credit(s): 1.0, 1.0

This course covers the same material as Algebra II over a two year period. This course is recommended for those students with an overall average of C + or less in math. Prerequisite: Departmental Recommendation.

Accelerated Algebra II

Grade Level(s): 10

Credit(s): 1.0

This course covers the topics of Algebra II more extensively and in greater depth.

It includes the study of the structure of the real and complex number systems, functions and relations, polynomials, exponential and logarithmic functions, conic sections, sequences and series, the Binomial Theorem, matrices, and trigonometric functions and their graphs.

Prerequisite: Departmental Recommendation.

Pre-Calculus with Trigonometry

Grade Level(s): 11, 12

Credit(s): 1.0

This course is designed to prepare the student for the study of Calculus. This course will include a detailed study of polynomial functions, exponential and logarithmic functions, and trigonometric functions. Conic sections, polar coordinates, complex numbers, and advanced graphing techniques will also be studied. The course will also include an introduction to limits and derivatives. Prerequisite: Algebra II with a grade of "B" or better and Departmental Recommendation.

Probability and Statistics I

Grade Level(s): 11, 12

Credit(s): 0.5

This course is designed to introduce the student to probability and statistics.

Probability experiments will be performed. Descriptive and inferential statistics will be studied.

Normal distributions, percentiles, and graphs are covered. This course will also use the computer to generate statistical studies.

Probability and Statistics II

Grade Level(s): 11, 12

Credit(s): 0.5

This course is designed to follow Statistics I. The course will pick up where Statistics I left off. Sampling distributions, sample estimation, and hypothesis testing for large and small samples are covered. This course will also use the computer to generate statistical studies. Prerequisite: Probability and Statistics I.

Differential Calculus

Grade Level(s): 11, 12

Credit(s): 1.0

This course is designed to strengthen the student's background of fundamental mathematical concepts and to give her exposure to the basic topics of Calculus. This course will not prepare the student to take the Advanced Placement Calculus Exam. It is designed to prepare the student for College Calculus. Prerequisite: Pre-Calculus or Accelerated Algebra II with a minimum grade of "B" and Departmental Recommendation.

AP Calculus

Grade Level(s): 12

Credit(s): 1.0

This course will contain, but is not limited to the following topics: Polynomial functions, transcendental functions, algebraic functions, limits, derivatives and integrals. The applications of these topics such as curve sketching will also be studied. The students will be required to take the Advanced Placement Calculus AP exam. Prerequisite: 3.5 G.P.A. and Departmental Recommendation.

World Language

The study of languages unfamiliar to students seeks to enrich a cultural knowledge and the linguistic understanding of the world. In addition, language acquisition adds an understanding of the structures and richness of a student's native language as students explore ways of communicating, which are very different than their own. As understanding increases, students are challenged to read, write, and converse in order to demonstrate proficiency in their chosen language(s) of study. Students are encouraged to select a language that will challenge their abilities as well as spark their interest.

French II**Grade Level(s): 10, 11****Credit(s): 1.0**

This course is a continuation of French I, building on vocabulary, grammar, and culture. Students will be able to use the language appropriately in oral and written communication. Students will extract meaning and knowledge from French language texts and oral communication. Students will connect French language and culture through texts, writing, and research.

French III**Grade Level(s): 11, 12****Credit(s): 1.0**

This course is a continuation of French II, building on vocabulary, grammar, and culture. Students will be able to use the language appropriately in oral and written communication. Students will extract meaning and knowledge from French language texts and oral communication. Students will connect French language and culture through texts, writing, and research. An introduction to French literature will increase knowledge of art and culture.

French IV**Grade Level(s): 11, 12****Credit(s): 1.0**

This course is a continuation of French III, building extensively on vocabulary, grammar, and culture. Students will be able to use the language appropriately in oral and written communication. They will process and produce effective written discourse as well as utilize French language texts to acquire knowledge. Students will connect French language and culture through texts, writing, and research. Students will continue their study of French literature in order to increase their knowledge of art and culture.

AP French (NOT Offered 2017/2018)**Grade Level(s): 12**

Credit(s): 1.0

This course is offered to students who have completed French III (with exceptional abilities) or French IV as a junior. This class requires more independent work than French IV. Students will concentrate on vocabulary, grammar, and oral communications at the most advanced level. They will process and produce effective written discourse as well as utilize French language texts to acquire knowledge. Students will connect French language and culture through texts, writing, and research. Students will continue their study of French literature in order to increase their knowledge of art and culture. A college text is used in order to prepare for the mandatory AP French Language Exam.

Spanish I**Grade Level(s): 9, 10****Credit(s): 1.0**

This is an introductory course of the Spanish language through vocabulary, grammar, and culture. Students will develop proficiency in reading, writing, listening, and speaking. Communicative lessons will develop the skills necessary for a variety of contexts. Students will begin to recognize the diversity of cultures throughout the Spanish-speaking world.

Spanish II**Grade Level(s): 10, 11****Credit(s): 1.0**

Building on the skills mastered in Spanish I, students will continue to develop proficiency in reading, writing, listening, and speaking. Communicative skills, vocabulary development, and grammatical understanding continue. Interactive skills in daily situations will be strengthened. Students will appreciate the contributions of Hispanics to the world.

Spanish III**Grade Level(s): 11, 12****Credit(s): 1.0**

Building on the skills mastered in Spanish II, students will extensively further proficiency in reading, writing, listening, and speaking. Students will work with more of an independent focus. An introduction to authentic materials in Spanish will increase the students' knowledge of art, literature, and customs of Hispanics. A majority of the discussions will be conducted in Spanish.

Spanish IV**Grade Level(s): 11, 12****Credit(s): 1.0**

This course intensifies development of reading, writing, listening, and speaking in Spanish. Extensive communicative function and advanced vocabulary are developed through role-play situations, open-ended conversations, and essay writing. Students will continue to develop a rich understanding of Hispanic Culture through authentic materials. Classroom instruction will also develop proficiency for the optional AP Spanish Language Exam. A majority of discussions will be conducted in Spanish.

AP Spanish**Grade Level(s): 12**

Credit(s): 1.0

This advanced placement course is offered to students who have completed Accelerated Spanish III or Spanish IV as a junior. Intense classroom instruction will concentrate on oral communication, vocabulary, and grammar on the most advanced level. This implements a variety of oral and written discourse to prepare for the mandatory AP Spanish Language Exam. A majority of classroom discussion will be conducted in Spanish. Prerequisite: 3.5 G.P.A.

Italian I**Grade Level(s): 9, 10****Credit(s): 1.0**

The main focus of the course is communication (understand and being understood) by applying interpersonal, interpretive, and presentational skills in real-life situations. The course is conducted primarily in Italian. Learning the language will be acquired through comprehensible input: Teacher will talk to students through presentation of background and context, choice of vocabulary, consistent vocabulary, intonation, visual cues, gestures, explanation and rewording of unclear content, and use of techniques such as graphic organizers and concrete objects. Through these methods, students' engagement is expected and necessary to succeed. Students will interact with various authentic materials since the beginning; vocabulary relevant to their interests and lives will be presented. Students' electronic devices will be a complement of instruction: Students will create videos, will practice speaking by recording through different apps, and will explore authentic websites. Students will start to familiarize with Italian culture through food, traditions, art, music, and history. This class follows the Michigan World Languages Standards, while incorporating Catholic values throughout the curriculum.

Italian II**Grade Level(s): 10, 11****Credit(s): 1.0**

This course is a continuation of Italian I. The main focus of the course is communication (understand and being understood) by applying interpersonal, interpretive, and presentational skills in real-life situations. The course is conducted primarily in Italian. Learning the language will be acquired through comprehensible input: Teacher will talk to students through presentation of background and context, choice of vocabulary, consistent vocabulary, intonation, visual cues, gestures, explanation and rewording of unclear content, and use of techniques such as graphic organizers and concrete objects. Through these methods, students' engagement is expected and necessary to succeed. Students will interact with various authentic materials; vocabulary relevant to their interests and lives will be presented. Students' electronic devices will be a complement of instruction: Students will create videos, will practice speaking by recording through different apps, and will explore authentic websites. Students will continue to learn about Italian culture through food, traditions, art, music, and history. This class follows the Michigan World Languages Standards, while incorporating Catholic values throughout the curriculum.

Italian III**Grade Level(s): 11, 12****Credit(s): 1.0**

This course is a continuation of Italian II. The main focus of the course is communication (understand and being understood) by applying interpersonal, interpretive, and presentational skills in real-life situations. The course is conducted primarily in Italian. Learning the language will be acquired through comprehensible input: Teacher will talk to students through presentation of background and context, choice of vocabulary, consistent vocabulary, intonation, visual cues, gestures, explanation and rewording of unclear content, and use of techniques such as graphic organizers and concrete objects. Through these methods, students' engagement is expected and necessary to succeed. Students will interact with various authentic materials; vocabulary relevant to their interests and lives will be presented. Students' electronic devices will be a complement of instruction: Students will create videos, will practice speaking by recording through different apps, and will explore authentic websites. Students will continue to expand their knowledge of Italian culture through food, traditions, art, music, literature, and history. This class follows the Michigan World Languages Standards, while incorporating Catholic values throughout the curriculum.

Italian IV

Grade Level(s): 12

Credit(s): 1.0

Grammar and syntax patterns will be further improved, especially with regards to conveying ideas and/or concepts in writing. Great emphasis will be placed on developing listening and speaking skills. The class will be conducted 99% in Italian. The students will become familiar with the most important Italian writers and Nobel Prize winners.

AP Italian

Grade Level(s): 12

Credit(s): 1.0

This advanced placement course is offered to students who have completed Italian III. The AP Italian Language and Culture course provides students with opportunities to demonstrate their proficiency at the Intermediate to Pre-Advanced range in each of the three modes of communication described in the ACTFL Performance Descriptors for Language Learners.

Students are expected to

- Engage in spoken interpersonal communication;
- Engage in written interpersonal communication;
- Synthesize information from a variety of authentic audio, visual, and audiovisual resources;
- Synthesize information from a variety of authentic written and print resources;
- Plan, produce, and present spoken presentational communications;
- Plan and produce written presentational communications.

The AP Italian Language and Culture course is structured around six themes:

- Beauty and Aesthetics
- Contemporary Life
- Families and Communities
- Global Challenges
- Personal and Public Identities
- Science and Technology

The themes are interrelated, they facilitate the integration of language, content, and culture, and promote the use of the language in a variety of contexts in preparation for the mandatory AP Italian Language Exam.

Physical Education and Health

The Physical Education and Health Department's mission is to provide students with the opportunity to develop mind, body, and spirit. Through a comprehensive and unified approach in instruction, students will be exposed to the key components in developing a healthy life style.

Physical Education and Health

Grade Level(s): 9

Credit(s): 1.0

Physical Education and Health will cover various health-related topics over the course of the year. The main goal is to provide students with the knowledge to make good lifestyle choices and encourage them to live a healthy lifestyle. Students will also participate in a variety of physical activities that will work on all aspects of individual physical fitness as well as team sports and individual sports.

Physical Education Advanced Topics

Grade Level(s): 10, 11, 12

Credit(s): 0.5

Advanced Physical Education covers the cognitive aspects of various health related topics with the main concentration on personal physical fitness and health. First-aid topics will also be covered. Time will be divided among cardiovascular activities in the gym, muscle development in the weight room, and team sports. Physical activities are more intensive than Physical Education and Health.

Science Department

The Ladywood Science Department seeks to encourage students to incorporate scientific skills and technology into their lives for the betterment of society, to enhance their realization that science is a daily endeavor, and to emphasize the recognition that science can be an effective part in resolving many contemporary problems. We strive to place all students in courses that will meet their capabilities, and we offer expansive course selections encouraging students to challenge themselves to higher levels of scientific education, in keeping with the Felician Core Values of Respect for Human Dignity, Compassion, Transformation, Justice and Peace, and Solidarity with the Poor.

Biology

Grade Level(s): 9

Credit(s): 1.0

This course will cover all levels of life and the organization of life. Students will become familiar with basic laboratory procedures and scientific experimentation. Techniques and skills of writing scientific writings will be developed. A scientific background and literacy will be established so that students can understand and explore current issues in Biology.

Accelerated Biology

Grade Level(s): 9

Credit(s): 1.0

This is a challenging course for self-motivated students. It will not only cover topics found in Biology but will also explore other issues in science. Students will become familiar with basic laboratory procedures and scientific experimentation. Techniques and skills of writing a scientific term paper will be developed. The student will also be expected to learn some material not covered in lectures.

AP Biology

Grade Level(s): 11, 12

Credit(s): 1.0

Advanced Placement Biology is a challenging course that is equivalent to a college level course that would be taken by students majoring in biology. A wide range of topics and laboratory exercises will provide students with the conceptual framework, factual knowledge, and analytical skills necessary to deal critically with current issues in biology. AP Biology differs from Biology in the sophistication of the textbook, the range and depth of topics covered, and type of laboratory work done. Students must be self-motivated and willing to put in extra time before and after school. The amount of material that needs to be covered requires the students to study topics not necessarily covered in class. The students will be required to take the Advanced Placement Biology exam. Prerequisite: 3.5 G.P.A

Chemistry

Grade Level(s): 10, 11

Credit(s): 1.0

This course will systematically instill concept proficiency, critical thinking, and problem solving, laboratory experimentation, and writing skills in each student. Students will develop self-confidence in the laboratory and their ability to deal with the content of chemistry through lectures, demonstrations, experiments, and homework. Topics include structure of atoms, chemical reactions, structure and properties of matter, interactions of energy and matter, scientific process, and laboratory and safety procedures.

Accelerated Chemistry

Grade Level(s): 10

Credit(s): 1.0

This college preparatory chemistry class will cover the same topics as Chemistry. Topics will be covered more thoroughly, expectations will be higher, and the pace will be faster. Independent learning and laboratory skills will be emphasized.

AP Chemistry

Grade Level(s): 11, 12

Credit(s): 1.0

The AP Chemistry course provides students with a college-level foundation to support future advanced course work in chemistry. Students cultivate their understanding of chemistry through

inquiry-based investigations, as they explore topics such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.

This course requires that 25 percent of the instructional time provides students with opportunities to engage in laboratory investigations. This includes a minimum of 16 hands-on labs, at least six of which are inquiry based. Students should have successfully completed a general high school chemistry course and Algebra II. The students will be required to take the Advanced Placement Chemistry exam.

Environmental Science

Grade Level(s): 10, 11, 12

Credit(s): 0.5

Environmental Science is the study of the interrelationships between plants, animals, and the earth. The class will investigate a variety of topics that deal with the impact that humans have on the earth. These topics include carrying capacity, matter and energy transformation and usage, consumption, waste and land management, biomes, and ecological succession. The class will include lecture, laboratory, demonstrations, and hands-on activities, including investigations into the Ladywood Forest and aquatic ecosystems. We will discuss a variety of solutions and governmental policies into environmental problems on a local, regional, and global scale.

Chemistry of Biological Compounds

Grade Level(s): 10, 11

Credit(s): 0.5

This course will introduce students to food science. This is a laboratory course that involves the chemistry/biology laboratory as well as the kitchen. Students will study the chemistry of carbohydrates, lipids, and proteins. They will explore leavening agents, fermentation, food processing, and food safety. Skills developed include concept understanding, critical thinking, problem solving, laboratory procedures, and scientific writing.

Human Anatomy & Physiology

Grade Level(s): 11, 12

Credit(s): 1.0

Anatomy and Physiology is a two-semester course that examines the structure and function of the human body. Following a brief review of chemical principles and cell structure, each body system is examined in detail with an emphasis on both the interrelation of structure and function and the mechanisms that maintain the integrity of the body as a whole. Teaching methods include classroom lecture and discussion, audio-visual presentations, and laboratory exercises including dissections. Assignments include homework, writing research reports, and active participation in classroom discussions and laboratory activities.

Physics

Grade Level(s): 11, 12

Credit(s): 1.0

Physics is the study of how the universe and the world around us work. This course examines the universe from the perspective of forces, motion, and energy. It will investigate objects ranging in size from the atom to the universe. This course will cover Newtonian mechanics, electricity, magnetism, heat, sound, and light. Demonstrations and laboratory experiments will be used to

investigate the world around us. Concepts, logical thinking skills, and mathematics skills are stressed in this course.

AP Physics

Grade Level(s): 11, 12

Credit(s): 1.0

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits.

LABORATORY REQUIREMENT

This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work, with an emphasis on inquiry based investigations that provide students with opportunities to apply the science practices. Each student should complete a lab notebook or portfolio of lab reports. The students will be required to take the Advanced Placement Physics exam. Prerequisite: Students should have completed geometry and be concurrently taking Algebra II or an equivalent course.

Microbiology (NOT Offered 2017/2018)

Grade Level(s): 11, 12

Credit(s): 0.5

Microbiology is a one-semester course that introduces students to the study of micro-organisms. By better understanding how microbes (both prokaryotic and eukaryotic) function, a student will be better prepared for college courses in the life sciences and many other college majors such as economics, agriculture, pre-medicine, environmental science, etc.

Genetics

Grade Level(s): 11, 12

Credit(s): 0.5

This is a one-semester course introducing the student to the field of modern genetics. The laws of inheritance that govern human traits and dispositions are examined. The current and future uses of DNA techniques and reproductive technology are also considered. Genetics holds special interest for life science students, and all students can benefit from realizing the impact the techniques of modern biology will have on their lives in the future. Methods include both lecture and laboratory activities, participation in research, and preparing reports for classroom presentation.

Forensic Science

Grade Level(s): 11, 12

Credit(s): 0.5

This class will focus primarily on the skills necessary for crime scene investigation that will include observation, deductive reasoning, and problem solving. Students will have experience of hands-on projects for the purpose of data collection and utilization of practical methods used in crime solving. Practical application will teach the students the necessary skills to extend the initial crime scene observation into a rational explanation for use as trial evidence.

Social Science Department

The Ladywood Social Science Department has a crucial role in the development of a student's perspective on society, politics, culture, and government. The courses provided at Ladywood provide a challenge for all students in various disciplines (history, psychology, sociology, and government). The structure allows for the students to fulfill their required course work as well as satisfying their academic curiosity through electives.

Global Studies

Grade Level(s): 9

Credit(s): 1.0

In this two-semester course, students receive a summary of history prior to the Renaissance and a detailed account of the development of modern day nations. Students will increase their geographical knowledge by locating countries, major societies, origins of major religions, and significant battles on maps in each chapter of study. Their understanding of Global Studies is drawn from six spheres of human activity. These include geography, social history, science and technology, economics, political science, and philosophical ideas.

American History

Grade Level(s): 10, 11

Credit(s): 1.0

This course considers the important events that have taken place from the nation's origin until the present. The course covers the development of sectionalism, nationalism, imperialism, the effects of big business, and the role of the U.S. in the World Wars, and the domestic and foreign policies of the various presidents. There are several themes that are discussed: geography, economics, government, culture, citizenship, technology, science, and global relations.

AP American History

Grade Level(s): 10, 11

Credit(s): 1.0

Advanced Placement American History is a comprehensive study of the U.S. from The Age of Discovery to the present. This is a year-long course for highly motivated, self-directed, and college-bound juniors. The course introduces students to the various cultural, economic, political, social, and diplomatic developments over time. The students will develop an analytical and interpretive approach to history. Extensive reading from the textbook, primary sources, research, and historical scholarship is required. A strong emphasis will be placed on the writing of free-response essays and document-based question essays. This class will prepare students for the Advanced Placement United States History Exam in the spring. Prerequisite: 3.5 G.P.A. and Department approval.

AP European History (Not offered 2017/2018)

Grade Level(s): 10, 11, 12

Credit(s): 1.0

Advanced Placement European History is the study of European history since 1450. This is a year-long course for highly motivated, self-directed, and college bound students. This course introduces students to cultural, economic, political, and social developments that played a

fundamental role in shaping the world in which they live. The students will develop an analytical and interpretive approach to history. Extensive reading from the textbook, primary sources, research, and historical scholarship is required. A strong emphasis will be placed on the writing of free-response essays and document-based question essays. This class will prepare students for the Advanced Placement European History Exam in the spring. Prerequisite: 3.5 G.P.A. and Department approval.

Economics

Grade Level(s): 10, 11, 12

Credit(s): 0.5

This course will introduce students to the basic concepts of microeconomics and macroeconomics. Introductory topics include factors of production, scarcity, opportunity cost, and economic systems with emphasis on the American private enterprise system. Microeconomic topics related to the interaction of demand, supply, and prices will be introduced. The macroeconomics portion of the class will cover GDP, business cycles, economic growth, productivity, unemployment, inflation, and international trade. The class is designed to help students understand general economic principles that affect American workers in all career areas. Prerequisite: Sophomores must have a 3.5 G.P.A. to select this class.

American Government

Grade Level(s): 10, 11, 12

Credit(s): 0.5

This is a one-semester survey course in which the student studies the historical and constitutional origins of our republic. Topics will include the structure, power and functions of the federal, state, and local governments with a particular emphasis on their foundations in the U.S. Constitution. Major developments in constitutional law are also examined through a special project utilizing landmark U.S. Supreme Court cases.

Psychology

Grade Level(s): 10, 11, 12

Credit(s): 0.5

This course is concerned with a systematic analysis of the major principles and concepts of human behavior and adjustment. A major goal of the course is to promote better self-understanding and an appreciation of individual differences. The students will learn how scientific methods may be employed to better understand individual and group problems. They will gain respect for the dignity and worth of all individuals.

Theology Department

The Theology Department offers a curriculum that educates young women in an environment permeated by the Gospel values of love, compassion, justice, reconciliation, and concern for the poor. In turn, our students will be motivated to exert the full extent of their knowledge and influence toward the creation of a peaceful and just world.

Theology I - The Revelation of Jesus Christ in Scripture

Grade Level(s): 9

Credit(s): 0.5

This is a one-semester freshmen course intended to give students general knowledge and appreciation of Sacred Scripture. Through the study of the Bible, the student will come to encounter the Living Word of God, Jesus Christ. The student will learn about the Bible, how it was authored through the inspiration of God, and the various literary genres included. Reading the Bible and familiarization with the stories of salvation history will help the student to grow, to know, and to love Jesus Christ more personally as the fulfillment of the Hebrew Scriptures.

Theology II - Who is Jesus Christ?**Grade Level(s): 9****Credit(s): 0.5**

This is a one-semester freshmen course intended to introduce students to the mystery of Jesus Christ, the Living Word of God, and the Second Person of the Blessed Trinity. It continues what **Theology I** began, using Sacred Scripture as a focus on Christ as the fulfillment of salvation history and the ultimate revelation to us from God. In learning about who Jesus is, the students will also learn who Jesus calls them to be.

Theology III - The Mission of Jesus Christ (The Paschal Mystery)**Grade Level(s): 10****Credit(s): 0.5**

This is a one-semester sophomore course intended to help the student understand all that God has done for us through his son, Jesus Christ. In this course of study, the student will learn that for all eternity, God has planned for us to share eternal happiness with him, which is accomplished through the redemption that has been won for us by Christ. The student will learn that she shares in this work of redemption and what it means to be a disciple of Christ.

Theology IV - Jesus Christ's Mission Continues in the Church**Grade Level(s): 10****Credit(s): 0.5**

This is a one-semester sophomore course intended to help the students understand that in and through the Church, they encounter the living Jesus Christ. Students will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by Him through the Holy Spirit. Students will come to know that the Church is the Living Body of Christ today. This Body has both divine and human elements. Students will learn not so much about the events in the life of the Church, but about the sacred nature of the Church.

Theology V - Sacraments as Privileged Encounters with Jesus Christ**Grade Level(s): 11****Credit(s): 0.5**

This is a one-semester junior course intended to help the student understand that Christ remains present to the world and in the Church through the sacraments, especially through the Eucharist. Students will examine each of the Sacraments in detail as encounters with Christ and the particular sacramental graces unique to each, which enables participation in the life of the Trinity and makes it possible for participation in Christ's work of restoring and renewing the world.

Theology VI - Life in Jesus Christ

Grade Level(s): 11**Credit(s): 0.5**

This is a one-semester junior course intended to help students learn the moral concepts and precepts that govern the lives of Christ's disciples. This course in Catholic morality will provide a method of arriving at moral decisions and share with students specific magisterial teachings in the areas of morality and Christian living. All of these tasks are firmly rooted in a common vision of fundamental human dignity that follows from being created in God's image and in the Christian vocation of being active disciples of Christ, who leads us to fullness of life.

Living as a Disciple of Jesus Christ in Society**Grade Level(s): 12****Credit(s): 0.5**

This is a one-semester course intended to introduce students to the Church's Social Teaching. In this course students will learn how Christ's concern for others, especially the poor and vulnerable, is present today in the Church's social teaching and mission. The students will examine the principles of Catholic social teaching, know their biblical roots, know the writings of the popes, and be able to apply them to social issues of the day in order to engage in the mission of Christ, restoring and renewing the world.

Responding to the Call of Jesus Christ**Grade Level(s): 12****Credit(s): 0.5**

This is a one-semester course intended to help students prepare more wisely for their future vocations and help them live better now the love of which the Gospels speak. They will examine how all vocations are similar, as well as how they differ, as they focus on married life, single life, priestly life, and consecrated religious life. In this study, students will learn that to love as Jesus calls us to love involves understanding and acceptance, responsibility and accountability, openness, forgiveness, honesty and integrity, sacrifice and self-discipline, and compassion and concern for others.

Ecumenical and Interreligious Issues**Grade Level(s): 12****Credit(s): 0.5**

This one-semester course is an overview of the mainstream religions of the world. An awareness of other religions has a two-fold benefit. First, in learning about other religions you gain a greater understanding of your own religion. Second, better comprehension of other religions allows Catholic Christians to be more open and accepting of people very different from themselves. The study of the world's religions also seeks to find common and universal themes among the world's various cultures and to learn from these great sources of wisdom.

DUAL ENROLLMENT**University of Detroit-Mercy, College of Engineering & Science****Engineering Graphics****Grade Level(s): 11, 12**

1 College Credit

This course is taught at Ladywood High School. This course provides an introduction to the engineering disciplines and computer graphics. Its emphasis is on design, solution of unstructured problems, visualization and communication of a design using proper drafting techniques. The mode of delivery is a mixture of lecture and laboratory. The laboratory experience takes the form of hands-on activities. The course contains a series of experiences drawn from different engineering disciplines to illustrate design methodology and engineering problem solving.

Madonna University

Grade Level(s): 9, 10, 11, 12

- See your Counselor for the course list and to discuss

Schoolcraft College

Grade level(s): 9, 10, 11, 12

- See your Counselor for the course list and to discuss

General Electives

Study Hall

Grade Level(s): 9, 10, 11, 12

Credit(s): No Credit

Students may elect to take a study hall each semester. This course is not to be taken for credit, but it allows students to work on homework and/or do research in the library. Students are expected to keep busy the entire period, and the teachers assigned will maintain a quiet environment for study.