



Cardinal Stritch

Catholic High School

**PROGRAM OF STUDIES
2017-2018**

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PLANNING YOUR SCHEDULE

The *Program of Studies* assists you in preparing your schedule for next year. This is an important responsibility, since the decisions you make now affect your academic future at Cardinal Stritch Catholic High School. Make sure you follow a good process in making your decisions.

- **Do a Self-Analysis:** How hard have you been trying? Can you do better? What are your interests? What are your career goals? Do you want to achieve special honors in a certain department?
- **Make Informed Decisions:** Read the course descriptions carefully. Talk with students who have taken the classes or teachers who have taught them. Talk over your choices with your parents, and especially your counselor. They can help you make realistic decisions.
- **Finalize Your Plans:** Once you have gathered all the information possible, make your final decisions. Keep in mind that you may not always be able to schedule every class requested. Have alternative plans ready. Remember once you have been scheduled it is very difficult to make changes. Look over your plan one last time and ask yourself if you are taking advantage of all that Cardinal Stritch Catholic High School has to offer.

USING THIS BOOK

Find the course you are looking for by department. Each course description has several parts that are important for helping you plan. Make sure you pay attention to these as you select courses. Look at the example below. Note the parts to which you should pay special attention.

Confirm the Course Number and Course Name when you request courses online.

Length of course (either 1 year or 1 semester). Make sure you choose enough courses to fill your schedule.

360 – SPANISH III

1 year – 1 credit

Grades 10–12

Spanish III provides an intermediate-level study of the language and cultures of the Spanish-speaking world. Students are presented with more complex vocabulary and grammatical structures. The class also provides students the opportunity to develop stronger listening comprehension, speaking, reading and writing skills.

Req.: B avg. or higher in Spanish II OR Spanish Teacher Approval

Indicates other requirements for the course.

ADD-DROP POLICY

It is very difficult to make changes in student schedules after school begins. Because of this, we urge parents and students to be sure of their course selections at registration time. Once a student has registered, his or her schedule is set. Students may not request a change because of the style of teaching, wanting to be with friends, or not needing the credit to graduate (this applies especially to seniors wanting to drop second semester course work). Students may not drop yearlong classes at the beginning of the second semester.

All requests for schedule changes must be made to the School Counselor. If the change is approved, a \$25 fee is charged within the

first three weeks of the semester. A \$50 fee is charged after the third week. These fees are waived if a teacher initiates the change because a class is beyond the student's ability level. The student must remain in his or her original class until the change is complete. A student may be issued a Withdrawn/Failing (WF) grade for the course. An example of this situation would be a student who is dropping a course to avoid failing that course. Students would be notified of this decision before the schedule change is made. The Principal makes any other decisions regarding schedule changes. These decisions are final.

COLLEGE PREPARATORY SCHEDULE

Cardinal Stritch Catholic High School highly recommends the following minimum credits for all students whose future plans include a four-year college. The School Counselor has information about preparation required for specific fields and schools.

English – 4 credits

Mathematics – 4 credits (including Algebra II)

Science – 3 credits (including Chemistry)

Social Studies – 3 credits (including World and American

History, American Government , Personal Finance and Economics)

Foreign Language – 2 or 3 credits

Fine Arts – 1 credit

HONORS COURSES AND WEIGHTED GRADES

Honors courses are rigorous courses designed to challenge the academically talented student. Grades of A, B, and C in advanced placement or honors courses earn an increase in quality points for the student's grade point average according to the table below. In the Program of Studies these courses are indicated by a ^{WG} after the title.

Letter Grade	GPA Points	Honor's Points
A	4.00	5.00
B	3.00	3.75
C	2.00	2.50
D	1.00	1.00
F	0	0

ADVANCED PLACEMENT (AP)

The Advanced Placement Program gives students the opportunity to pursue college-level studies while still in secondary school. In addition to receiving high school credit, students whose AP examination grades are considered acceptable may receive college hours and/or advanced placement. Students who apply for an AP class must undergo a selection process set up by each of the various departments offering AP classes. This process requires that both students and parents understand the nature of AP courses and the demands placed on a student. AP courses are taught at a freshman college level. Each instructor has specific information on his/her class that the student and parent must review before a student is allowed to request the class. Any student who receives a "D" for the first semester of an AP class is subject to removal from the class. Students may not be allowed to take more than two AP classes per semester without the written permission of the Principal. Students who take AP courses do so with the intent of taking the AP test

COLLEGE CREDIT PLUS PROGRAM & DUAL ENROLLMENT

Note: The College Credit Plus Program was formerly the Post Secondary Education Option Program (PSEOP). Students with exceptional academic records may opt to take courses in person after school hours or online at the University of Toledo. Students earn credit at CSCHS and UT. Students also may take courses at Owens Community College at a reduced rate.. Interested students should see the School Counselor for more information about the program and courses that are offered.

FLEX CREDIT PROGRAM

The Flex credit program allows students to earn course credit outside the classroom. Students create an individualized program of study that extends or enhances course work at Cardinal Stritch Catholic High School, and demonstrates an academically sound reason for receiving credit. An adequate amount of time must be devoted to it. Interested students should see the School Counselor.

GRADUATION REQUIREMENTS

Students must complete the following requirements to graduate from Cardinal Stritch Catholic High School. All students should monitor their progress and stay in contact with the School Counselor to be sure they are on the right track.

I. Required Academic Courses

(These courses must be taken during high school years; credits earned prior to 9th grade are reflected on the student's transcript upon graduation from CSCHS.)

A. Theology – students complete one Theology course for each semester enrolled at CSCHS.

B. Required courses

English –

4 credits from Language Arts & Literature

Mathematics –

4 credits including Algebra II

Science –

3 credits

Social Studies –

3 credits including American History, American Government, Personal Finance & Economics

Fine Arts –

1 credit

Health & Physical Education –

1 credit

Other Electives – at least 4 credits

II. Service to community and/or church – students complete service hours according to the *CSCHS Student and Parent Handbook*.

III. State of Ohio Required Tests – students must pass the seven End of Course exams or state required graduation tests.

IV. Senior Career Project – students must complete the Senior Career Project.

GRADUATION WITH HONORS

BISHOP'S CROSS

The Bishop's Cross is awarded each year to two graduates, one male and one female, who maintain above average grades in Theology classes and who demonstrate Christian service. Graduates apply for this award. The recipient is chosen by the Administration.

STATE OF OHIO ACADEMIC DIPLOMA WITH HONORS

Students earn the Academic Diploma with Honors by completing all of the state requirements for graduation and seven of eight (7 of 8) of the following criteria:

- 4 credits of English;
- 4 credits of Mathematics including Algebra II;
- 4 credits of Science including Chemistry and Physics;
- 4 credits of Social Studies;
- 3 credits of Foreign Language (with no less than 2 credits in one language for which credit is sought);
- 1 credit of Fine Arts;
- minimum GPA of 3.5 on a 4.0 scale; and/or
- minimum 27 ACT or 1210 SAT.

DEPARTMENTAL HONORS

The following departments at Cardinal Stritch Catholic grant honors to graduates who meet stated requirements:

Art: 3½ credits (must include Studio Classes) – Minimum grade point average of 3.7 in Art courses.

English: 4 credits (must include English IV or English IV/Comp.I/II) – Minimum grade point average of 3.7 in English courses.

Foreign Language: 3 credits of one foreign language – Minimum grade point average of 3.7 in Foreign Language courses.

Mathematics: 4 credits including Pre-Calculus – Minimum grade point average of 3.7 in Mathematics courses.

Music Department: Students are required to complete 8 of the following: Band or Chorale with a minimum grade point average of 3.7, Solo and Ensemble with a Superior or Excellent rating and Honors Ensembles at the District or State level or at an approved University.

Science: 4 credits including Chemistry, Physics, or Projects – Minimum grade point average of 3.2 in Science courses.

Social Studies: 3½ credits including Modern World History, American History, American Government, and Economics – Minimum grade point average of 3.7 in Social Studies Courses.

SENIOR CAREER PROJECT

Students can often learn as much outside of the classroom as inside the classroom. The Senior Career Project gives students the opportunity to connect what they have learned at Stritch to the world. Professionals in the community take an active role in shaping our Seniors and counseling them to make decisions that positively impact them and the community in the future.

Theology

Graduation Requirement: 1 Theology course for each semester enrolled at CSCHS

900 – REVELATION OF JESUS CHRIST

1 year – 1 credit

Grade 9

This course is a basic introduction into the divine revelation of Jesus Christ and the Holy Bible. It focuses on the introduction of Jesus as the Messiah from the Old Testament as well a concentration on the Gospels, Jesus as a man, His teachings, and our call to discipleship. It includes a basic explanation of the Creed and the Ten Commandments.

910 – THE MISSION OF CHRIST

1 year – 1 credit

Grade 10

This course focuses on the mission of Jesus Christ in the context of salvation as told in the New Testament as well as the mission in the world today through our active participation in the discipleship of the Church.

920 – OUR LIFE IN CHRIST

1 year – 1 credit

Grade 11

This course focuses on the essential messages of Jesus' moral teaching, the importance of love of God and love of neighbor. There is particular focus on participation in the life of Christ both in the Sacraments and in our daily lives.

930 – RESPONSE TO GOD'S CALL

1 year – 1 credit

Grade 12

The focus of Senior Theology is largely on Pope John Paul II's *Theology of the Body*. God calls us to actively participate in His love. This course helps Seniors understand how to respond to that love as Catholics in today's society

English

Graduation Requirement: 4 credits from Language Arts & Literature

LANGUAGE ARTS & LITERATURE

210 – ENGLISH I

1 year – 1 credit

Grade 9

This course focuses on the integration of writing as a process and the study of literature. The four stages of writing – prewriting, organizing, writing, and revising – are identified, explained, and practiced while grammar usage, vocabulary, and spelling are strengthened. Literary selections include a study of the short story, poetry, nonfiction, drama, and the novel.

215 – ENGLISH I HONORS – WG

1 year – 1 credit

Grade 9

This demanding course focuses on the integration of writing as a process and the study of literature. The four stages of writing – prewriting, organizing, writing and revising – are identified, explained, and practiced. Grammar and the related language skills of critical thinking, vocabulary development, library skills, and speaking and listening skills are developed. Literary selections include study of the short story, poetry, nonfiction, drama, and the novel. **Entrance into this course is based on HSPT scores and 8th Grade teacher recommendation.**

220 – ENGLISH II

1 year – 1 credit

Grade 10

This course focuses on the integration of writing as a process and the study of literature. The four stages of writing – prewriting, organizing, writing and revising – are further developed and practiced. Students are introduced to research skills. Grammar and related language skills of critical thinking, vocabulary development, library skills, and speaking and listening skills are further developed. Literary selections include a study of the short story, poetry, nonfiction, drama, and the novel.

Req.: Successful completion of English I OR English Teacher Approval

225 – ENGLISH II HONORS – WG

1 year – 1 credit

Grade 10

This exacting course focuses on the integration of writing as a process and the study of literature. The four stages of writing – prewriting, organizing, writing and revising – are further developed and practiced. Students are introduced to research skills. Grammar and the related language skills of critical thinking, vocabulary development, library skills, and speaking and listening skills are further developed. Literary selections include a study of the short story, poetry, nonfiction, drama, and the novel.

Req.: B avg. or higher in English I Honors OR A avg. or higher in English I OR English Teacher Approval

230 – ENGLISH III

1 year – 1 credit

Grade 11

This course integrates American literature with language arts. The

course emphasizes the refinement of skills in composition, development of vocabulary, and practice in reading and interpreting literature. American literature is presented from its roots in the Native American and Puritan traditions through the nineteenth century as well as the short story, nonfiction, poetry, and drama as they evolved during the twentieth century.

Req.: Successful completion of English II

235 – ENGLISH III HONORS – WG

1 year – 1 credit

Grade 11

This challenging course integrates language arts and American literature. The study of research techniques and theme types, especially critical and informative, are studied with research papers required. Native American and Puritan traditions through the nineteenth century as well as the short story, nonfiction, poetry, and drama as they evolved during the twentieth century are studied.

Req.: B avg. or higher in English II Honors OR A avg. in English II OR English Teacher Approval

240 – ENGLISH IV

1 year – 1 credit

Grade 12

This course focuses on the integration of language arts and World Literature. The course emphasizes the refinement of skills in composition, development of vocabulary, research, and practice in reading and interpreting literature. World Literature is presented from its roots in Ancient literature through the twentieth century in five literary types: the short story, non-fiction, poetry, drama, and the novel.

Req.: Successful completion of English III

245 – ENGLISH IV AP / Comp.I/II – WG

1 year – 1 credit

Grade 12

This ambitious course focuses on the integration of language arts and British literature. Research techniques are refined through the writing of four papers, three of which are based on novels from a suggested college-bound reading list. English literature and its roots in the Germanic tradition through the twentieth century are studied in five literary types: the short story, nonfiction, poetry, drama and the novel.

Req.: B avg. or higher in English III Honors OR A avg. in English III
Students who successfully complete this course may earn credits for Composition I/ II through Dual Enrollment but MUST be taken at CSCHS not online or in the evening at a university/college. There will be an optional AP test for possible college credit, fee required.

ENGLISH ELECTIVES

253 – SCIENCE FICTION & FANTASY 1

1 semester – ½ credit

Grades 11–12

In survey of Science Fiction and Fantasy authors, this course studies and analyzes sci-fi/fantasy as a legitimate form of literature. The class looks at religious themes found in sci-fi/fantasy fiction as well as technology and gender roles.

254 – SCIENCE FICTION & FANTASY 2

1 semester – ½ credit

Grades 11–12

Students more deeply analyze the relationships and themes of sci-fi/fantasy literature while investigating literary techniques of different eras. Other media such as movies and television are also covered.

256 – THEATER IN WESTERN CIVILIZATION

1 year – 1 credit

Grades 11–12

Students in this course study theatrical plays and dramatic literature of Western Civilization beginning with Greek and Roman culture, the beginning of theater and its growth from religious ceremonies, and medieval Mystery and Morality plays. Study continues with transitions during the 16th to 19th centuries including the Elizabethan, Renaissance, Jacobean, and Restoration dramas including playwrights such as Shakespeare, Moliere, Congreve, Sheridan and Goethe. The course finishes with 20th century European, British and American drama. Participants in the course also present scenes from selected representational works to appropriate audiences throughout the school year.

262 – INTRODUCTION TO JOURNALISM

1 year – 1 credit

Grades 10–12

In this course the techniques of gathering news, interviewing, writing, and editing are developed. Students practice writing editorials and news, feature and sports stories. Students learn to write copy for broadcast news stories. During second semester, students learn broadcast media techniques such as filming and editing video. This course is for those students who like to write and/or desire to join the yearbook staff.

264 – BROADCASTING 1

1 semester – ½ credit

Grades 11–12

Students produce videos and podcasts of events around the school and community. All of the techniques learned in Introduction to Journalism are used and expanded upon in this class.

Req.: Introduction to Journalism and English Teacher Approval

266 – BROADCASTING 2

1 semester – ½ credit

Grades 11–12

Students take an active leadership role in deciding what stories are told in podcasts and videos. These students run staff meetings, listen attentively to ideas, discuss merits and timeliness of ideas, create a realistic deadline schedule, and assist with production needs. In addition, these students are also responsible for producing their own podcasts and videos.

Req.: Broadcasting 1

275 & 280 – YEARBOOK I & II

1 year – 1 credit

Grades 10–12

Students are responsible for producing the school yearbook. Production includes digital photography, layout design and copywriting in accordance with a selected theme. Students employ computer technology in the production of the yearbook. Advertising and yearbook sales promotion are also a part of this course. Editorial staff members are chosen from among the second year students. Editors are responsible for maintaining staff accord, making sure deadlines are met, and helping new staff members become familiar with the computer technology. This course demands the ability to work on assignments individually and the ability to meet deadlines.

Req. Application and Interview Process

Mathematics

Graduation Requirement: 4 credits including Algebra II

510 – ALGEBRA I

1 year – 1 credit

Grade 9

This course covers: concepts and methods of elementary algebra, addition, subtraction, multiplication and division of polynomials, rational expressions, simple algebraic equations and elementary word problems with linear and quadratic equations. Advanced topics covered are: factoring, graphing polynomials, solving quadratic equations, radicals, laws of exponents and solving word problems.

515 –ALGEBRA I HONORS – WG

1 year – 1 credit

Grade 9

This course covers: order of operations, arithmetic operations, solving linear equations and inequalities, absolute value equations and inequalities, solving systems of equations and inequalities, operations of polynomials, factoring, quadratic functions and their graphs, analysis of graphs of polynomial functions, laws of exponents, operations on radicals and solving radical equations.

Entrance into this course is based on HSPT and 8th grade Math Teacher Approval

520 – GEOMETRY

1 year – 1 credit

Grades 9–10

This course covers the problem solving skills, concepts and methods, and unifies the main principles of geometry, algebra and arithmetic. It covers: angles, triangles, congruent triangles, parallel lines, circles and polygons, tangent lines, chords and arcs of circles, direct and indirect proofs and right triangle trigonometry.

Req.: Algebra I

525 –GEOMETRY HONORS – WG

1 year – 1 credit

Grades 9–10

This course is an advanced approach to the structure of geometry with special emphasis on advanced geometric concepts including conic sections, trigonometric functions and identities and vectors as well as the topics covered in Geometry.

Req.: B avg. or higher in Algebra I Honors OR A avg. or higher in Algebra I OR Math Teacher Approval

A graphing calculator (TI–83 plus/TI–84 or higher) is required for Algebra II and higher-level mathematics courses.

530 – ALGEBRA II

1 year – 1 credit

Grades 10–12

This course covers inequalities and absolute value inequalities, graphing linear functions, slopes of parallel and perpendicular lines, products and factoring of polynomials, rational expressions, complex numbers, quadratic equations, polynomials and polynomial functions.

Req.: Algebra I and Geometry OR Math Teacher Approval

535 –ALGEBRA II HONORS – WG

1 year – 1 credit

Grades 10–11

In addition to the topics covered in Algebra II, this course also covers conic sections, trigonometric identities and equations, sequences and series and data analysis.

Req.: B avg. or higher in Algebra I Honors and Geometry Honors OR Math Teacher Approval; may be taken concurrently with Geometry Honors with Math Teacher Approval

542 – STATISTICS & APPLIED FUNCTIONS

1 year – 1 credit

Grade 12

This course integrates the basics of statistics, trigonometry and functions and observes their practical applications. Statistics topics include collecting and graphing data, scatter plots, calculating mean, median, mode, standard deviation, and methods of collecting statistical samples. Applied functions topics include trigonometric functions, function identities of different angles, applications of right triangles, radian and arc length measurements, and circular functions.

Req. Successful completion of Algebra II

540 – PRE-CALCULUS

1 year – 1 credit

Grades 11–12

Pre-Calculus topics are presented to lay the foundation for further study of mathematics at the college level. This course covers: properties and operations on real and complex numbers, analytic geometry with emphasis on analysis of graphs of functions, domain and ranges of functions, composition and inverses of functions, exponential and logarithmic functions, solving polynomial equations, solving systems of equations, conic sections, trigonometric functions and identities and solving triangles using the Law of Sines and Law of Cosines.

546 – PRE-CALCULUS HONORS – WG

1 year – 1 credit

Grades 11–12

Pre-Calculus topics are covered at a more rigorous pace and extensive depth to prepare students to take Calculus the following year.

Req.: B avg. or higher in Algebra II Honors OR A avg. or higher in Algebra II OR Math Teacher Approval

560 – CALCULUS (AP) – WG

1 year – 1 credit

Grade 12

This course is the study of the fundamentals of differential and integral calculus. The course covers: functions and relations, domain and ranges of functions, graphing functions, limits of functions, infinite limits, continuity, derivative of functions and its applications, higher order derivatives, antiderivatives, integrals both definite and indefinite, techniques of integration, hyperbolic and inverse hyperbolic functions, exponential and logarithmic functions, and infinite series.

Req.: B avg. or higher in Pre-Calculus Honors OR A avg. In Pre-Calculus In May there will be an optional AP test for possible college credit, fee required.

Science

Graduation Requirement: 3 credits

700 – ENVIRONMENTAL SCIENCE

1 semester – ½ credit

Grades 10–12

Students develop an understanding of natural and man-made environments and the environmental problems the world faces by studying the interrelationships of the natural world by exploring the origins and connections between the physical, chemical, and biological processes of the earth system. Students identify and analyze environmental problems at the local, national and global levels through gathering and interpreting geologic, ecological and political data. The course focuses on the origin, dynamics and consequences of environmental damage. Other topics include human population, ecosystems, resource use, energy & land use, with an emphasis on examining alternatives.

715 – INTEGRATED SCIENCE

1 semester – ½ credit

Grades 10–12

Students investigate introductory level Chemistry, Physics and Earth and Space topics. Topics are foundational for further study in advanced level Science courses. Mathematical relationships are stressed. Laboratory experiences are presented to reinforce the theory presented in class.

720 – BIOLOGY I

1 year – 1 credit

Grade 9

This introductory basic laboratory course in biological sciences covers the fundamentals of all life from individual cell structure to complex plants and animals and discusses basic concepts of biochemistry, genetics and classification are discussed. Laboratory sections include cytology, genetics, taxonomy and some live specimens.

726- ZOOLOGY I

1 semester-½ credit

Invertebrates comprise at least 95% of all known animals. From their numbers and diversity alone, it is obvious that invertebrates are incredibly important. The general objective of this course is to familiarize the student with the basic concepts of invertebrate zoology. Focus would include: familiarity with classification (phyla), invertebrate anatomy, collection methods, invertebrate behavior, and evolution of Invertebrates.

727-ZOOLOGY II

1 Semester - ½ credit

Vertebrate Zoology is the study of anything with a back-bone, fish, reptiles, birds, mammals and more. This course enables you to learn more about vertebrates - the characteristics that distinguish fish from reptiles, and birds from marsupials, vertebrate taxonomy, as well as the anatomy, physiology, ecology, evolution and behavioral adaptations that enable them to survive effectively in their natural environment.

730 – CHEMISTRY I

1 year – 1 credit

Grades 10–12

The central topics of this course are: atoms and periodic trends, bonding and compounds; chemical nomenclature, formulas, reactions, and stoichiometry. Problem solving is the focal point throughout the course. Sound laboratory procedures, techniques, and safety develop through practical experiences that emphasize course topics.

Req.: Biology, Algebra I

735 –CHEMISTRY I HONORS – WG

1 year – 1 credit

Grades 10–12

This is an accelerated course designed to challenge students whose career/educational interests may include engineering, science, or mathematics. The central topics of study are similar to Chemistry but are covered in more depth and at a faster pace.

Req.: B avg. or higher in Biology and Algebra I Honors or Algebra I

AND Science Teacher Approval

737 –CHEMISTRY II HONORS – WG

1 year – 1 credit

Grades 11–12

This is an advanced course in Chemistry and is recommended to students whose career/educational interests may include chemical engineering, chemistry, laboratory work or pharmacy. Topics covered in this class are states of matter, gases and gas laws, solutions, ions in aqueous solutions, acids and bases, physical chemistry, redox reactions, nuclear chemistry and organic chemistry.

Req.: B avg. or higher in Chemistry I Honors OR A avg. in Chemistry I AND Science Teacher Approval

745 – PHYSICS I HONORS – WG

1 year – 1 credit

Grades 11–12

This is an accelerated course designed to challenge students whose career/educational interests may include engineering, science, or mathematics. The central topics of study are the laws of motion and forces, energy, sound, light, and electricity and magnetism. Problem solving is the focal point throughout the course.

Req.: Algebra II (or taken concurrently) and B avg. or higher in Chemistry or Chemistry Honors

747 –PHYSICS II HONORS – WG

1 year – 1 credit

Grade 12

This is an accelerated course for students whose career/educational interests may include civil engineering, mechanical engineering kinesiology, optometry and other physics related fields.

Primary topics of study include thermodynamics, sound and light, wave motion, electricity and magnetism and field forces.

Req.: B avg. or higher in Physics I Honors I

STEMM Program

ENGINEERING TRACK

450S – INTRODUCTION TO ENGINEERING DESIGN (IED)

1 year – 1 credit

Grades 9–12

The major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community.

455S – PRINCIPLES OF ENGINEERING (POE)

1 year – 1 credit

Grades 10–12

This course exposes students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Students investigate engineering and high tech careers, employ engineering and scientific concepts in the solution of engineering design problems, and develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students also learn how to document work and communicate solutions to peers and members of the professional community.

Req: B avg. or higher in Introduction to Engineering & B avg. or higher in Algebra I or Algebra I Honors; OR STEMM Teacher Approval

460S – DIGITAL ELECTRONICS (DE)

1 year – 1 credit

Grades 11–12

From smart phones to appliances, digital circuits are all around us. This course provides a foundation for students who are interested in electrical engineering, electronics, or circuit design. Students study topics such as combinational and sequential logic and are exposed to

circuit design tools used in industry, including logic gates, integrated circuits, and programmable logic devices.

Req: B avg. or higher in Principles of Engineering AND STEMM Teacher Approval.

462S – COMPUTER SCIENCE PRINCIPLES AP(CPS)

1 year – 1 credit

Grade 12

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. CSP helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. **In May there will be an optional AP test for possible college credit, fee required.**

491S – ROBOTICS

1 semester – ½ credit

Grades 10–12

Students apply the engineering process to the process of constructing robots. The class takes part in the BEST Robotics Competition through Bowling Green State University as well as other potential competitions. Skills obtained from the competitions enable students to design and build robots that perform student or teacher-defined tasks.

Req: Successful completion of Intro to Engineering Design AND STEMM Teacher Approval

Biomedical Science Track

Successful completion of courses in the Biomedical Science track earn required science credit toward Graduation.

470S – PRINCIPLES OF BIOMEDICAL SCIENCES (PBS)

1 year – 1 credit

Grades 10–12

This course introduces the biomedical sciences through exciting hands-on projects and problems. Students investigate human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, research processes and bioinformatics. Key biological concepts including homeostasis, metabolism, inheritance of traits, and defense against disease are embedded in the curriculum.

Req: B avg. in Biology I or Biology I Honors OR STEMM Teacher Approval

475S – ANATOMY & HUMAN BODY SYSTEMS (HBS)

1 year – 1 credit

Grades 11–12

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis.

Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases.

Req: B avg. or better in Principles of Biomedical Science AND STEMM Teacher Approval OR B avg. or better in Biology AND STEMM Teacher Approval.

480S – MEDICAL INTERVENTIONS (MI)

1 year – 1 credit

Grade 12

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

Social Studies

Graduation Requirement: 3 credits including American History, American Government, Personal Finance and Economics

The Cardinal Stritch Catholic High School Social Studies department recommends the following course program:

9th: Modern American History (1 credit); 10th: American Government (½); Personal Finance (½);
11th: World History (1) OR American History (AP) (1) OR Elective (½ - 1); 12th: Economics (½); Elective (½)

810 – WORLD GEOGRAPHY & CULTURE

1 semester – ½ credit Grades 10–12

This course introduces students to the physical and cultural geography of the nations on six continents. Geographic terms and map analysis skills accompany student research for each region. Students examine local customs including foods, languages, traditions and religions of the various nations.

820 – ANCIENT & MEDIEVAL WORLD HISTORY

1 semester – ½ credit Grades 10–12

A study of history from the origins of humanity to the 19th century. It offers a well-balanced treatment of Eastern and Western lands.

825 – MODERN WORLD HISTORY

1 year – 1 credit Grades 11–12

A study of history from the 19th century to the present in a balanced account of political, cultural and social developments in regions East and West. World, regional and cultural geography are taught as the history of each nation studied.

830 – EARLY AMERICAN HISTORY (COLONIAL–1877)

1 semester – ½ credit Grade 10–12

The course covers pre-colonial America through the Reconstruction struggles in the 1870's. Students study the American Revolution and the development of the new nation.

835 – MODERN AMERICAN HISTORY (1877–PRESENT)

1 year – 1 credit Grades 9–10

The first of two US History courses, this course begins with the Progressive Era and ends with the War on Terror. The Expansion of American industry, Immigration and Urban Life, and the First World War are introduced. World War II, the Vietnam War, the Civil Rights Movement and the Conservative Revolution are examined in this class.

845 – AMERICAN HISTORY (AP) – WG

1 year – 1 credit Grades 11–12

An extensive comprehensive study of American History from the days of exploration thru the 20th century. Students are encouraged to take the AP exam.

Req.: B Avg. in American History or Social Studies Teacher Approval

In May there will be an optional AP test for possible college credit, fee required.

850 – AMERICAN GOVERNMENT

1 semester – ½ credit Grade 10–12

An introduction to the structure and operation of the United States government based on an examination of various alternative political and economic systems, the U.S. Constitution and constitutional law, and a thorough investigation into the legislative, executive and judicial branches of the federal government.

853 – PERSONAL FINANCE

1 semester – ½ credit Grades 10–12

In this course students learn areas of personal finance. Some topics include checking accounts, savings accounts, credit cards, credit scores, student loans, car loans, and personal loans. Students do a variety of assignments that aid in their understanding of making good financial decisions. This class is presented with the aid of Dave Ramsey's Financial Peace University.

855 – ECONOMICS

1 semester – ½ credit Grade 12

Students learn about the American free enterprise system and explore their roles as citizens, producers, and consumers. Personal economics is a focus of this class. Recommended for college-bound students.

860 – PSYCHOLOGY

1 semester – ½ credit Grades 11–12

This survey course in the field of psychology introduces psychological topics of memory, dreams, personality theories, child development and learning theories. It is recommended for college-bound students.

870 - SOCIOLOGY

1 semester – ½ credit Grades 11–12

This course focuses on the impact of social change and presents a balanced picture of three main sociological perspectives: interactionist, functionalist and conflict theories. Current social issues and problems are also discussed. Recommended for college-bound students.

880 - CURRENT EVENTS

1 semester – ½ credit Grades 11–12

This course introduces world, national and local events of political, social and economic nature. Research is emphasized in this course due to the fluidity of topics. Students learn to identify and use reliable electronic and print media sources.

Health & Physical Education

Graduation Requirement: ½ credit Health; ½ credit (2 semesters) Physical Education

400 – HEALTH

1 semester – ½ credit

Grades 10–12

Students study wellness, mental health/self-esteem, nutrition, alcohol, tobacco, illegal drugs, HIV/AIDS, first aid and CPR. This course is offered with student and teacher interaction through online course software.

425 – P.E. ACTIVITIES & SPORTS

1 semester – ¼ credit

Grades 9–12

Students participate in various physical activities, sports and lifetime fitness. Skill instruction, emotional and social development, knowledge of human movement and game rules are also included.

426 – P.E. PERSONAL FITNESS & NUTRITION

1 semester – ¼ credit

Grades 9–12

Students learn the importance of strength and fitness training, as well as how to compliment weight training and exercise routines with appropriate nutrition. Students set goals for personal improvement and achievement while developing practices to maintain physical fitness and diet for a healthy lifestyle.

Fine Arts

Graduation Requirement: 1 credit (Performing Arts or Visual Arts)

PERFORMING ARTS

600 – BAND

1 year – 1 credit

Grades 9–12

This course is a study in the performance of instrumental music and is open to any student who plays a band instrument at a proficient level. The band functions as a performing ensemble including: Marching Band, Concert Band and Pep Band. Attendance at rehearsals and performances, including football games, basketball games, parades and concerts, is mandatory.

610 – CHOIR

1 year – 1 credit

Grades 9–10

This course is open to any student who wishes to join a vocal ensemble. This course teaches proper vocal techniques, reading and interpretation of choral music, and performance in two- and three-part harmonies. The group performs mixed choral literature at selected concerts throughout the year. Attendance at all rehearsals and performances is mandatory.

630 – CHORALE

1 year – 1 credit

Grades 11–12

Chorale is an auditioned vocal ensemble that studies and performs mixed choral literature at selected concerts throughout the year. Attendance at rehearsals and performances is mandatory. Students who are not selected for Chorale are placed in Choir.

Req.: Audition Process OR Music Teacher Approval

640 – MUSIC THEORY

1 semester – ½ credit

Grades 11–12

This course is for students who have already participated in music and wish to further their knowledge. Students discuss the basics of music and progress to composing their own original pieces.

Req.: Successful completion of previous music course OR Music Teacher Approval.

650 – MUSIC APPRECIATION

1 semester – ½ credit

Grades 9–12

This course is for any student who wishes to begin or further his or her understanding of music. Discussions include what is music, history of music and music theory. This class is ideal for those students who do not wish to be in a performance ensemble but still enjoy music.

680 – DRAMA & THEATER 1

1 semester – ½ credit

Grades 9–12

Students study and perform various styles of acting and genres of theatrical literature. Students read and write critical essays regarding the different styles of acting and theatrical literature. Critiques of live and recorded performances are incorporated into the class. Career opportunities in theatre are examined.

690 – DRAMA & THEATER 2

1 semester – ½ credit

Grades 9–12

Students continue the studies from Drama & Theater 1. Students direct scenes and learn camera acting methods.

Req.: Drama & Theater 1 OR Drama Teacher Approval

VISUAL ARTS

011 – ART 1

1 semester – ½ credit

Grades 9–12

This is the introductory course to art that explores the elements of art. Students experience the use of a wide variety of media and technique in both two and three-dimensional work. Art history, art criticism and aesthetics are integrated into the course through the use of the use of books and audiovisual materials.

012 – ART 2

1 semester – ½ credit

Grades 9–12

This course continues the exploration started in Art 1 to include the organizing principles of art. Students again use a wide variety of media and techniques in both two and three-dimensional work. Art history, art criticism and aesthetics are integrated into the course through the use of the use of books and audiovisual materials.

013 – ART 3

1 semester – ½ credit

Grades 10–12

This is the course for students wishing to develop their artistic skills with the presentation of a variety of studios focused on problem solving. Students follow an integrated study of art history, art criticism, aesthetics, and studio production through the use of textbooks and audiovisuals materials.

Req.: B avg. or higher in Art 2 OR Art Teacher Approval

014 – ART 4

1 semester – ½ credit

Grades 10–12

This class focuses on the further development of art skills to prepare students for the upper level studio classes of Advanced Art and Ceramics & Sculpture. It is a continuation of Art 3 and offers an integrated study of art history and studio production through the use of books and audiovisual materials.

Req.: B avg. or higher in Art 3 OR Art Teacher Approval

031 & 032 – CERAMICS & SCULPTURE 1 & 2

1 semester – ½ credit

Grades 10–12

This course is for students who enjoy working 3-dimensionally and want to further explore clay as an artistic medium. A variety of building and glazing techniques will be studied including throwing on a potter's wheel, hand building, and glaze trailing. Students make both functional and sculptural pieces and develop an understanding of historical and contemporary ceramics.

Req.: B avg. or higher in Art 2 OR Art Teacher Approval

040 – DRAWING & PAINTING

Drawing & Painting is no longer offered, but students can continue their studies in this discipline in the Advanced Art courses listed below.

045 & 046 – ADVANCED ART 1 & 2

1 semester- ½ credit

Grades 11-12

This course is for any artistically driven student interested in advancing his or her 2-dimensional and/or 3-dimensional skills and techniques. Students work independently and make many choices about the types of projects they pursue while staying within a given framework. Peer feedback is given and received to help develop artistic concepts and ideas. Students gain inspiration and knowledge by staying informed about the contemporary art world.

Req.: B avg. or higher in Art 4 OR Art Teacher Approval

070 – DIGITAL PHOTOGRAPHY 1

1 semester- ½ credit

Grades 10-12

This course enables students to recognize and build their individual strengths and interest in photography. Students enhance their understanding and technical skills using the camera as a creative tool for self-expression, composition, and technique. The history of photography is also surveyed, with attention to its impact on society.

Req.: B avg. or higher in Art 2 OR Art Teacher Approval

075 – DIGITAL PHOTOGRAPHY 2

1 semester- ½ credit

Grades 10-12

Students with a genuine interest in becoming better photographers expand the techniques learned in Digital Photography 1 and explore how to effectively add creative and artistic elements to photographs. Students learn advanced photo manipulations using Adobe Photoshop to create photographic works of art. Knowledge of manual camera settings such as shutter speed and aperture are developed, and historical and contemporary photographers are studied. Students will develop a photographic portfolio of their work throughout the semester.

Req: Successful completion of Digital Photography 1.

Spanish

340 – SPANISH I

1 year – 1 credit

Grades 9–12

An introduction to the language and cultures of the Spanish-speaking world. Acquiring a foundation of basic vocabulary and grammatical skills, students engage in simple conversations. Attaining listening comprehension, speaking, reading, and writing skills, as well as culture, is the focus of the course that emphasizes foundational aspects such as subject pronouns, conjugating present tense verbs, forming questions and statements, greetings, classroom, family and pastime vocabulary.

Req.: C avg. or higher in English

350 – SPANISH II

1 year – 1 credit

Grades 9–12

Spanish II continues investigation of the language and cultures of the Spanish-speaking world. The course focuses on developing stronger listening comprehension, speaking, reading, and writing skills, as well as, a broader vocabulary and cultural aspects. Emphasis is placed on slightly advanced vocabulary and grammar skills such as conjugating verbs in the past tense and irregular verbs.

Req.: C avg. or higher in Spanish I

360 – SPANISH III

1 year – 1 credit

Grades 10–12

Spanish III provides an intermediate-level study of the language and cultures of the Spanish-speaking world. Students develop more complex vocabulary and grammatical structures. The class also focuses on stronger listening comprehension, speaking, reading and writing skills.

Req.: B avg. or higher in Spanish II OR Spanish Teacher Approval

370 & 380 – SPANISH IV & V – ^{WG}

1 year – 1 credit

Grades 11–12

Students further develop listening, speaking, reading and writing skills, as well as knowledge of various Spanish-speaking cultures through the use of literary selections and discussion in Spanish. Each piece of literature pieces are selected for grammar, vocabulary and writing techniques and alternate annually for students taking both of these courses. Students also complete projects and presentations. The nature and pace of this course assist students in developing valuable study skills for a college Spanish curriculum.

Req.: B avg. or higher in Spanish III

390 – ADVANCED SPANISH CULTURE

1 year – 1 credit

Grade 11–12

Advanced Spanish Culture

Students examine in depth political, economic, religious and/or social issues of Latin-America and Spain, both historical and contemporary. Topics include, but are not limited to: Native American population prior to the arrival of the Europeans, influence and impact of the Catholic Church on Latin American cultures, evolution of political systems and philosophies in Latin American societies, and the rise of Central American gangs and migration issues. Along with vocabulary and grammar, students will be viewing documentaries, authentic footage, and movies that accompany each thematic unit. This is a year-long course for juniors and seniors. Sophomores may take with teacher/counselor approval. Prerequisites: Spanish 1 and 2

Looking Into Future Experiences L.I.F.E. Programs

1001 – SENIOR INTERNSHIP

1 semester – 1 credit

Grade 12

Students gain a unique insight to possible careers by interning with professionals in the chosen field. Students must demonstrate a strong sense of responsibility and reliability, as they are accountable to their employers. This class normally requires a multiple period of time.

Req.: Application Process

1010 & 1015 – EARLY EDUCATION SEMINARS 1 & 2

1 semester – ½ credit

Grades 11–12

Students selected for these courses are placed with a teacher in the Academy in order to explore their interest in early childhood or middle childhood education. Students might help the classroom teacher with day-to-day lessons, grading, tutoring, reading, etc. In addition, students meet regularly with the instructor of the course to discuss educational issues and further their research in a career in education.

Req.: Application and Interview Process