

**St. Edward  
Central Catholic High School  
Curriculum Guide  
2021-2022**



*Where Discipleship Begins*

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## **MISSION STATEMENT**

Saint Edward Central Catholic High School is a college preparatory, faith-centered Catholic community. Our mission is to nurture the discipleship of Jesus Christ and to promote excellence in education.

To further this mission, Saint Edward Central Catholic High School enables its students to develop life-long skills and abilities that will help them become empathetic, responsible, and productive citizens.

### **GOALS AND OBJECTIVES**

The St. Edward Central Catholic High School Family:

#### **Goal 1: Promotes Spiritual Development**

- By providing an environment which fosters Christian development
- By frequent celebration of the sacraments of the Eucharist and Reconciliation
- By offering yearly retreats for all students
- By stressing and practicing the Word of God given to us through the Scripture, teachings and Traditions of the Church
- By affording opportunities for the private and public expressions of Faith
- By promoting Christian values in our inter-personal relationships
- By striving to influence society in the light of Gospel values
- By learning to be good stewards of the earth

#### **Goal 2: Promotes Academic Development**

- By developing the ability to think critically and make valued based decisions
- By encouraging each individual to develop his//her God-given talents
- By connecting the knowledge of the past with the reality of the present to prepare for the future
- By maintaining a program of studies that provides knowledge and skills

#### **Goal 3: Promotes Social Development**

- By respecting the uniqueness of self and others
- By recognizing human growth and development as an ongoing process
- By encouraging individuals to initiate experiences which will help them grow in self-awareness and responsibility, resulting in cooperative activities

**\*St. Edward Central Catholic High School adopts in whole all policies set forth in the Diocese of Rockford Education Office Policies and Procedures handbook.**

## CURRICULUM AND GRADUATION REQUIREMENTS

St. Edward Central Catholic High School is a four-year high school; all students attend full time. All students must register for a minimum of six credits per year.

In order to graduate from St. Edward Central Catholic High School, a student must successfully complete the minimum number of academic credits as established by the school's administration and successfully pass all required courses. All students must participate in the retreat program as part of their requirement for graduation. Refer to Retreat Program elsewhere in this handbook. In addition, each student must complete 10 hrs. of Christian Community Service per year.

### Illinois University System entrance requirements

English	4	credits
Mathematics	3-4	credits
Social Studies	3-4	credits
Science	2-5	credits
World Language	2	credits

### Credits Required For Graduation

In order to graduate from St. Edward Central Catholic High School, students **must have at least twenty-four credits including these required courses:**

Theology	4.0
English	4.0
Math	3.0
Science (including Biology)	3.0
Social Studies	3.0
Physical Education	0.5
World Lang./Fine & Applied Arts	2.0
Health	0.5
Electives	4.0

**Total credits required for graduation: 24 credits**

\*The three year Science requirement must include one year of Biology.

\*\*Students must pass the Illinois and U. S. Constitution Tests.

### COURSE OFFERINGS

In order to successfully meet the above graduation requirements, the student must successfully complete the course requirements as outlined in the Curriculum Guide. Students who transfer into St. Edward Central Catholic High School will have their transcripts individually reviewed. All courses at St. Edward High School are taught in English. Foreign language is utilized for instructional purposes where deemed necessary.

## HONORS COURSES

Eligibility for freshman level honors courses is determined on student scores on the High School Placement Test and other relevant test data. Eligibility for sophomore, junior, and senior level honors courses is determined by the department based upon work habits and past performance. Enrollment in an honors or an advanced placement course is limited due to the nature of the course. Enrollment in these challenging courses is for students who have already developed strong academic behaviors. Students in these rigorous courses should expect extensive assignments and must assume responsibility for daily class participation. The following honors courses are available:

English:	English 1-H, English 2-H, English 3-H, English 4-H
Mathematics:	Algebra 1-H, Geometry-H, Algebra 2-H, Pre-Calculus-H, Statistics-H
Music:	Chorus-H, Jazz Band-H
Science:	Biology 1-H, Chemistry 1-H, Biology 2-H, Chemistry 2-H, Physics-H
Social Sciences:	U.S. History-H, U.S. Government and Economics-H
World Languages:	French 3-H, French 4-H, Spanish 3-H, Spanish 4-H

## ADVANCED PLACEMENT COURSES

Advanced Placement courses are designed to provide students college-level coursework in a high school setting. The College Board oversees and audits the curriculum for Advanced Placement courses. Students who wish to enroll in advanced placement courses must have the recommendation of the appropriate department chair and are required to take the AP exam administered in the spring. Due to the cost of the exam, students are required to pay a \$100 exam fee for each AP for which they are registered.

English:	AP English Language & Composition, AP English Literature & Composition
Mathematics:	AP Calculus AB
Science:	AP Biology, AP Chemistry
Social Studies:	AP Psychology

## OFF CAMPUS CLASSES/DUAL CREDIT

Any consideration of off-campus classes is solely at the discretion of the administration, and will be reviewed on an individual, case-by-case basis. In order to be eligible for consideration, a student must: 1) have at least a 3.25 cumulative GPA, 2) have completed upper-level courses at St. Edward, 3) be current with all graduation requirements. Courses offered at St. Edward's may not be taken at off campus sites. **More information on dual credit will be available at a later date in 2021.**

## CLASS STANDING AND PLACEMENT

The Director of Counseling and Superintendent/Principal will annually review each student's achievement record and class standing. The cumulative units of credit earned by the beginning of the school year (fall semester) determine a student's classification. The school will notify a student and his/her parent(s)/guardian(s) when the student falls below the minimum units listed below.

<u>Classification</u>	<u>Minimum Earned Units of Credit</u>
Sophomores	6
Juniors	12
Seniors	18

Students who are deficient in credits are expected to do one or more of the following: (1) enroll in summer school, or (2) take school sanctioned correspondence, independent study, or on-line courses.

**Any student deficient in course credits or who fails to complete required make up course work by the end of summer proceeding the school year of the course failure, will be placed on academic probation and may not be permitted to continue his/her education at St. Edward Central Catholic High School.**

## **SELECTING COURSES**

The selection of courses should be made with input from parents and school faculty in light of your performance, interests, aptitudes, test scores, and future planning. Students should consider not only the courses that are appropriate for next year, but those which will meet goals over the four years of high school and beyond.

### **COURSE CANCELLATIONS**

The administration reserves the right to cancel courses if enrollment is insufficient. Not all courses listed in the curriculum guide run each school year. Students are not guaranteed their elective choices.

### **COURSE CHANGES**

Once course selections are finalized, requests for schedule changes will not be honored after the second week of the semester, except for scheduling conflicts or teacher-initiated change.

## **BUSINESS AND TECHNOLOGY DEPARTMENT**

### **INTRODUCTION TO BUSINESS**

<b>Grade Level</b>	<b>10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Computer Applications or Departmental determination</b>		

This is a one year course designed to help students develop an understanding and appreciation of our American business system and the economic setting in which it functions. It attempts to guide the student in obtaining the greatest return from the natural resources available in the world as well as obtaining the most from his economic and financial resources. Computer applications in the Microsoft Suite will be utilized throughout the course.

### **DIGITAL LITERACY**

<b>Grade Level</b>	<b>9</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>			

This course is an elective course for freshmen and is designed to help students develop and improve the digital/computer skills necessary for academic and personal success in high school and beyond. This course will include an introduction to: keyboarding techniques, computer hardware/software/apps, and the use of the Surface Pro (including but not limited to troubleshooting, signing in and out, syncing, tablet mode, saving, setting up and managing folders in One Drive). Students will learn programs and web apps such as Word, Excel, PowerPoint, Sway, Outlook, and note taking and organization of study materials in OneNote. The course will also focus on internet safety, responsibility, and managing online identity.

### **MARKETING**

<b>Grade Level</b>	<b>11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Computer Applications and Introduction to Business or Departmental determination</b>		

This one year class includes units on the most current topics in marketing, including e-marketing, marketing ethics, and international and cross-cultural marketing. Students will get a step-by-step introduction to creating marketing plans. In addition, Dave Ramsey's Foundations in Personal Finance is taught second semester in a ten week session.

## ENGLISH DEPARTMENT

### **ENGLISH 1 – INTRODUCTION TO LITERARY GENRES**

<b>Grade Level</b>	<b>9</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>None</b>		

Course is designed to help students become skilled readers and introduce major genres of literature, including the short story, novel, poetry, nonfiction and drama. Emphasis will be on improving reading, writing and rhetoric skills. Students will learn the skills needed to produce coherent, reference-based persuasive, expository and compare/contrast essays. The ability to comprehend and analyze complex texts in relation to the real world will be stressed.

### **ENGLISH 1 - LITERARY GENRES**

<b>Grade Level</b>	<b>9</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>None</b>		

Course is designed to help students become skilled readers and introduce to major genres of literature, including the short story, novel, poetry, nonfiction and drama. Emphasis will be on identifying literary elements, building vocabulary through fiction and nonfiction texts, and developing annotation skills to improve comprehension and retention of material. Students will learn the skills needed to produce coherent, reference-based persuasive, expository and compare/contrast essays.

### **ENGLISH 1 – LITERARY GENRES – HONORS**

<b>Grade Level</b>	<b>9</b>	<b>Value:</b>	<b>Honors, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>minimum 90% in the Cognitive Verbal Skills, the Basic Reading Skills, Basic Language Skills on the High School Placement Test and Departmental determination.</b>		

Course is designed to help students become skilled readers and provide an introduction to major genres of literature, including the short story, novel, poetry, nonfiction and drama. Emphasis will be on improving reading, writing and rhetoric skills. Students will learn the skills needed to produce coherent, reference-based persuasive, expository and compare/contrast essays. Students will be expected to produce clear, coherent and well-researched reference supported essays. Writing should be free of spelling and major grammatical errors. Students are expected to complete in-depth critical thinking exercises and be motivated to go beyond the assignment independently.

### **ENGLISH 2 – INTRODUCTION TO AMERICAN LITERATURE**

<b>Grade Level</b>	<b>10</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>English 1</b>		

Course is a survey course of the major works of American literature with concentrated study given to the "masters." Grammar, composition, vocabulary and spelling continue to be emphasized in an effort to further improve the students' ability to communicate accurately through the writing of short themes, and delivery of oral presentation in class.



## **ENGLISH 2 - AMERICAN LITERATURE**

<b>Grade Level</b>	<b>10</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>English 1</b>		

Course is a survey course of the major works of American literature with concentrated study given to the "masters." Grammar, composition, vocabulary and spelling continue to be emphasized in an effort to further improve the students' ability to communicate accurately through the writing of short themes, and delivery of oral presentation in class.

## **ENGLISH 2 - AMERICAN LITERATURE – HONORS**

<b>Grade Level</b>	<b>10</b>	<b>Value:</b>	<b>Honors, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Grade of “B” or higher in English 1H and Departmental determination</b>		

This is a survey course of the major works of American literature with concentrated study given to the "masters." Grammar, composition, vocabulary and spelling continue to be emphasized in an effort to further improve the students' ability to communicate accurately through the writing of short themes, and delivery of oral presentation in class.

## **ENGLISH 3 – BRITISH LITERATURE**

<b>Grade Level</b>	<b>11</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>English 2</b>		

This course will encourage students to consider the place of the canon of British literature in today's world. Students will learn to critically analyze several classic texts and their place in literary history, while also honing their writing skills in a college preparatory environment. Students will learn to work through language barriers of older texts, apply texts to modern questions about our society, explore how meaning changes through form/genre, and develop independent writing and literary analysis skills.

## **ENGLISH 3 – BRITISH LITERATURE - HONORS**

<b>Grade Level</b>	<b>11</b>	<b>Value:</b>	<b>Honors, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Grade of “B” or higher in English 2H and Departmental determination; By junior and senior year, writing in honors courses should be practically error-free in terms of spelling, punctuation, and basic grammar.</b>		

This course will encourage students to consider the place of the canon of British literature in today's world. Students will learn to critically analyze several classic texts and their place in literary history, while also honing their writing skills in a college preparatory environment. Students will learn to work through language barriers of older texts, apply texts to modern questions about our society, explore how meaning changes through form/genre, and develop independent writing and literary analysis skills. The honors designation indicates that this version of the course is more rigorous, both in the number and quality of written assignments and in the expectations for class discussion and independent work.

## **ENGLISH 4 - WORLD LITERATURE**

<b>Grade Level</b>	<b>12</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>English 3</b>		

Course is designed to enrich student understanding of the many types of literature from a variety of origins. Texts will include ancient epics, poetic narratives, and prose from both Western and non-Western backgrounds. This course will not only introduce students to such texts, but will provide them with an understanding of how cultural identity impacts verbal and written art. Students will also receive a number of writing assignments to prepare them for the rigors of college.

## **ENGLISH 4 - WORLD LITERATURE - HONORS**

<b>Grade Level</b>	<b>12</b>	<b>Value:</b>	<b>Honors, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>

**Prerequisites Grade of “B” or higher in English 3H and Departmental determination; ; By junior and senior year, writing in honors courses should be practically error-free in terms of spelling, punctuation, and basic grammar.**

Course is designed to enrich student understanding of the many types of literature from a variety of origins. Texts will include ancient epics, poetic narratives, and prose from both Western and non-Western backgrounds. This course will not only introduce students to such texts, but will provide them with an understanding of how cultural identity impacts verbal and written art. Students will also receive a number of writing assignments to prepare them for the rigors of college. The honors designation indicates that this version of the course is more rigorous, both in the number and quality of written assignments and in the expectations for class discussion and independent work.

## **ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION**

<b>Grade Level</b>	<b>11</b>	<b>Value:</b>	<b>Honors, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Departmental determination</b>		

In this college-level course students learn how to analyze, synthesize, and evaluate nonfiction texts: essays, biographies and autobiographies, speeches, sermons, and passages from writings in the arts, history, social science, politics, science, and other areas of study. Students learn to evaluate and construct arguments drawn from articles in newspapers, magazines, and online sources. The course is interdisciplinary, immersing students in a variety of sources. Students construct arguments drawn from their observation, experience, and reading; they learn to synthesize as a result of their own research opportunities; and they learn to analyze arguments both for their appeals – ethos, logos, pathos – and for the contexts in which these arguments appear. Sources are drawn from a variety of historical periods and disciplines. While the stress is on non-fiction, the course does not exclude the study of fiction, poetry, and drama.

## **ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION**

<b>Grade Level</b>	<b>12</b>	<b>Value:</b>	<b>Honors, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Departmental determination</b>		

This course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider

work's structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. The course includes intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit.

### **CREATIVE WRITING**

<b>Grade Level</b>	<b>9 10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>0.5</b>	<b>Length:</b>	<b>Semester</b>
<b>Prerequisites</b>	<b>None</b>		

This introductory course will awaken the student's powers of observation, imagination, and language; introduce them to the basics of the craft; and take them on a tour of various genres including short story, poetry, creative non-fiction, and drama. The workshop format will encourage reflection and discussion in a non-threatening environment. Entry in contests, submission for publication, and the publishing of a school-wide fine arts magazine in conjunction with our other departments are other possibilities that will be encouraged.

### **SPEECH**

<b>Grade Level</b>	<b>9 10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>0.5</b>	<b>Length:</b>	<b>Semester</b>
<b>Prerequisites</b>	<b>None</b>		

The purpose of this course is to familiarize students with the proper delivery of various kinds of speeches as well as the correct procedures utilized in effective oral interpretation of literature. Students will learn to pay special attention to expression, articulation, and clarity in speaking, and to eye contact, expression, and gesture.

### **SURVEY OF THEATRE**

<b>Grade Level</b>	<b>9 10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>0.5</b>	<b>Length:</b>	<b>Semester</b>
<b>Prerequisites</b>	<b>None</b>		

This survey drama course will cover the basics of all aspects of theatre, from the origins of theatre to modern careers in dramatic arts. Students will learn about the many facets of putting together a professional production, applying these skills through creative projects as the class reads several scripts together. Course goals include understanding the history and multifaceted work of theatrical production, practical application of knowledge of a company to play texts, exploration of many varieties of acting exercises and methodology, eventually working towards professional contact and holistic understanding of theatre.

## **INTRODUCTION TO FILM STUDIES**

<b>Grade Level</b>	<b>10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>0.5</b>	<b>Length:</b>	<b>Semester</b>
<b>Prerequisites</b>	<b>None</b>		

This semester-long course will treat film as a visual narrative, using analysis techniques similar to critical reading of traditional literary texts, just with a different vocabulary set. With film and television so inseparable from contemporary culture, this course aims to give language to the methods of understanding this artistic medium with closer attention paid to the necessary tools for more intense critical thought. Moving primarily chronologically through the history of American film, the class will cover specific terminology for composition and technique, as well as major schools of critical thought include genre studies, feminist criticism, and psychoanalytical criticism. (Films presented will include both foreign films and those chosen from the American Film Institute's list of 100 greatest films of the past 100 years, and are rated PG-13 or under.)

## **PUBLICATIONS**

<b>Grade Level</b>	<b>9 10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Grade of "C" or better in English courses (including 8<sup>th</sup> grade English) and Departmental determination</b>		

This year-long elective course will provide students with the skills necessary to publish both print and online editions of the school newspaper, *The Edge*, as well as the annual yearbook, *The Co-Ed Word*. Students will build skills in journalistic writing, photography, graphic design, interviewing, broadcasting, and copy-editing, and will work collaboratively with other students on projects. Assignments will involve a variety of written and design projects, including interviewing classmates, teachers, and coaches for event write-ups; peer-reviewing and editing written descriptions and captions; taking pictures at events; assessing aesthetic components of design; and creating visually-appealing layouts and backgrounds. Students will be assessed on their performance in such projects as well as their ability to follow and meet deadlines. Leadership positions (such as Editor-in-Chief, Photo Editor, Managing Editor, Copy Editor, etc.) may be available to students who take the course more than once.

## FINE AND APPLIED ARTS DEPARTMENT

### MUSIC

#### CONCERT CHOIR

<b>Grade Level</b>	<b>9 10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>None</b>		

An audition may be required for voice part placement. This course will introduce students to concert choir repertoire spanning many genres, while instilling knowledge of the fundamentals of both music and singing (e.g. music reading skills, breathing for singing, pronunciation for singing). This course is primarily performance-based. It culminates in at least two major performances per year, as well as performances at school Masses. Four years of credit are available for this course.

#### CHORUS HONORS

<b>Grade Level</b>	<b>101112</b>	<b>Value:</b>	<b>Honors, Elective Credit</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Departmental approval; audition required; passing score on basic vocal music theory pretest</b>		

This course will focus mainly on jazz and contemporary a cappella repertoire. It is primarily performance-based with an emphasis on individual knowledge and ability. Students will be required to participate in one ensemble performance per semester, and may be required to participate in either the ILMEA or IHSA solo/ensemble contest. Students may also have such expectations as taking on leadership responsibilities in the ensemble (e.g. leading sectionals), helping arrange music, and otherwise assisting the teacher and their peers.

#### JAZZ BAND

<b>Grade Level</b>	<b>9 10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Departmental approval</b>		

This course is primarily performance-based. Repertoire includes a wide variety of music (e.g. Jazz, Blues, Rock). This class seeks to cultivate the development of music fundamentals (e.g. sight-reading, instrumental technique, music theory) with a focus on rehearsing and preparing music. This course culminates in at least two major performances each year. Four years of credit are available for this course.

## **JAZZ BAND HONORS**

<b>Grade Level</b>	<b>10 11 12</b>	<b>Value:</b>	<b>Honors, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Departmental approval</b>		

This course is intended for students who have successfully completed at least a year of Band. Honors credit band members will have such expectations as participating in the ILMEA district auditions/ensemble, taking on leadership responsibilities in the ensemble (e.g. leading sectionals), helping arrange music, and otherwise assisting the teacher and other students. This course culminates in at least two major performances each year.

## **BEGINNING INSTRUMENTAL MUSIC**

<b>Grade Level</b>	<b>9 10 11 12</b>	<b>Value:</b>	<b>Honors, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Equipment Rental</b>		

This class is meant for those who have little or no experience playing a musical instrument. Students will pick an instrument from the following list:

flute

clarinet

saxophone (alto or tenor)

trumpet

trombone

French horn

baritone/euphonium

piano

guitar and bass

percussion

The goal of this class is for students to learn the basics of how to play their chosen instrument, and for them to learn about the fundamentals of music. Students will learn pieces of music to be played on their own, and will also learn music to be played with others. There will be learning as a group, and one-on-one learning in the form of lessons with the teacher during the school day. Students must be willing to work hard, and must be able to work independently.

Students must acquire their own instrument—either through rental or purchase. The teacher will provide resources for renting instruments, and (if applicable) guidance for purchasing.

This class may be repeated, for the study of different instruments.

## FINE AND APPLIED ARTS DEPARTMENT VISUAL ARTS

### ART FUNDAMENTALS

<b>Grade Level</b>	<b>9 10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>None</b>		

This beginning course provides the opportunity to develop skills necessary for visual communication and expression, along with building an appreciation of visual arts. Students will learn to think resourcefully, critically and creatively in this class. They will learn to identify and use the elements and principles of art by applying them to a variety of techniques and art media. Units will include color theory, a variety of drawing techniques, painting, print making, two-dimensional and three-dimensional design. Course work will include a series of projects, drawing exercises, critiques and project proposals. Art history will also be integrated throughout the year. All students are required to submit work to the Fine Arts Festival.

### INTERMEDIATE ART

<b>Grade Level</b>	<b>10 11 12</b>	<b>Value:</b>	<b>Regular , Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Grade: "B" or better in Art Fundamentals</b>		

The course builds upon the two-dimensional and three-dimensional techniques and styles introduced in Art Fundamentals. Units will implement more advanced concepts and use of media to encourage the development of each student's unique artistic style. Course work will be divided in a series of projects, drawing exercises and art history lessons that will be integrated throughout the year. All students are required to submit work to the Fine Arts Festival.

### ADVANCED ART

<b>Grade Level:</b>	<b>11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit:</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites:</b>	<b>Grade "B" or higher in Intermediate Art and departmental determination</b>		

The course is for motivated art students. College level concepts of drawing and painting will be implemented and provide an opportunity for students to develop their own styles while using a wide variety of media. Curating and Art history will also be integrated throughout the year. All students are required to submit work to the Fine Arts Festival.

### STUDIO ART

<b>Grade Level:</b>	<b>11 12</b>	<b>Value:</b>	<b>Honors, Elective</b>
<b>Credit:</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Grade: "B" or higher in Advanced Art and departmental determination</b>		

This course is for highly motivated art students. An emphasis on individualized work allows students to gain project management skills and pursue particular areas of interest. Art history and curating will be incorporated throughout the year as they continue to develop their artistic abilities. These serious art students will have a wide variety of resources and guidance available to them if they decide to pursue art outside of high school. Each student will develop a professional portfolio over the course of the year, while applying college level art concepts and art application techniques to their works. At the end of the year all students are required to submit work to the Fine Arts Festival.





## **MATHEMATICS DEPARTMENT**

The Mathematics program at St. Edward Central Catholic High School is designed to provide each student with the opportunity to develop his or her math talents to the fullest. Placement in the appropriate level of any mathematics course (Honors, Average, or Essentials) is subject to department approval.

*\*\*Incoming freshmen must pass (per department guidelines) a proficiency test in Algebra 1, Geometry, or any high school level course taken prior to 9<sup>th</sup> grade.*

*Students placed in Honors math courses must maintain a minimum of a “B” average to remain in Honors courses.*

### **ALGEBRA 1 ESSENTIALS**

<b>Grade Level</b>	<b>9</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Determination based on the standardized placement test scores.</b>		

Course includes studying the basic topics of algebraic expressions, solving equations and inequalities, integers, rational numbers, real numbers, linear, quadratic functions, and polynomial functions, factoring, graphing, and radicals. This level of Algebra is taught at an adjusted pace.

### **ALGEBRA 1**

<b>Grade Level</b>	<b>9</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Determination based on the standardized placement test scores.</b>		

Course includes studying the topics of algebraic expressions, solving equations and inequalities, integers, rational numbers, real numbers, linear, quadratic functions, and polynomial functions, factoring, graphing, and radicals

### **ALGEBRA 1 HONORS**

<b>Grade Level</b>	<b>9</b>	<b>Value:</b>	<b>Honors, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Determination based on the standardized placement test scores.</b>		

Course includes studying the topics of algebraic expressions, solving equations and inequalities, integers, rational numbers, real numbers, linear, quadratic functions, and polynomial functions, factoring, graphing, and radicals. This level of Algebra is taught at a more accelerated pace with greater expectations.

### **GEOMETRY ESSENTIALS**

<b>Grade Level</b>	<b>10</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Algebra 1 Essentials or Algebra 1</b>		

Course uses deductive logic as a system of reasoning applied to plane and solid figures. This course covers Euclidean geometry which includes the discussion of points, planes, angles, triangles, polygons, circles, areas, and volume. Coordinate geometry and basic analytic geometry are used to reinforce and apply theoretical concepts. This level of Geometry is taught at an adjusted pace.

## **GEOMETRY**

<b>Grade Level</b>	<b>10 11</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Algebra 1</b>		

Course uses deductive logic as a system of reasoning applied to plane and solid figures. This course covers Euclidean geometry which includes the discussion of points, planes, angles, triangles, polygons, circles, areas, and volume. Coordinate geometry and basic analytic geometry are used to reinforce and apply theoretical concepts

## **GEOMETRY HONORS**

<b>Grade Level</b>	<b>9 10 11</b>	<b>Value:</b>	<b>Honors, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Grade of “B” or higher in Algebra 1 Honors and Departmental determination</b>		

Course uses deductive logic as a system of reasoning applied to plane and solid figures. This course covers Euclidean geometry which includes the discussion of points, planes, angles, triangles, polygons, circles, areas, and volume. Coordinate geometry and basic analytic geometry are used to reinforce and apply theoretical concepts. This level of Geometry is taught at a more accelerated pace with greater expectations.

## **ALGEBRA 2 ESSENTIALS**

<b>Grade Level</b>	<b>11</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Geometry Essentials or Geometry</b>		

Course emphasizes facility with algebraic expressions, equations, and functions. Topics studied include matrices, polynomials, quadratic relations, series, sequences, exponential and logarithmic functions, complex numbers, and an introduction to trigonometry. A graphing calculator is required for this course. This Algebra 2 course is taught at an adjusted pace.

## **ALGEBRA 2**

<b>Grade Level</b>	<b>10 11 12</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Geometry</b>		

Course emphasizes facility with algebraic expressions, equations, and functions. Topics studied include matrices, polynomials, quadratic relations, series, sequences, exponential and logarithmic functions, complex numbers, and an introduction to trigonometry. A graphing calculator is required for this course.

## **ALGEBRA 2 HONORS**

<b>Grade Level</b>	<b>10 11 12</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Grade of “B” or higher in Geometry Honors and Departmental determination</b>		

Course emphasizes facility with algebraic expressions, equations, and functions. Topics studied include matrices, polynomials, quadratic relations, series, sequences, exponential and logarithmic functions, complex numbers, and an introduction to trigonometry. A graphing calculator is required for this course. This level of Algebra 2 is taught at a more accelerated pace with greater expectations.

## **PRECALCULUS**

<b>Grade Level</b>	<b>10 11 12</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Algebra 2 and Departmental Determination</b>		

Course consists of a full semester of trigonometry and a semester of advanced algebra and analytic geometry. Topics include linear and quadratic functions, circular functions, polar coordinates and complex functions, conics, polynomial and rational functions. A graphing calculator is required for this course.

## **PRECALCULUS HONORS**

<b>Grade Level</b>	<b>10 11 12</b>	<b>Value:</b>	<b>Honors, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Grade of "B" or higher in Algebra 2 Honors and Departmental determination</b>		

Course consists of a full semester of trigonometry and a semester of advanced algebra and analytic geometry. Topics include linear and quadratic functions, circular functions, polar coordinates and complex functions, conics, polynomial and rational functions. A graphing calculator is required for this course.

## **INTRODUCTION TO COLLEGE ALGEBRA/APPLICATIONS**

<b>Grade Level</b>	<b>12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Algebra 2 and Departmental Determination</b>		

This course is designed for seniors who wish to take a fourth year of math to expand and reinforce their mathematics skills. Topics covered include: linear, quadratic, and rational functions, equations, inequalities, review of geometry and trigonometry topics, ACT/college placement test readiness, applications including statistics, financial math, and game theory. A graphing calculator is required for this course.

## **ADVANCED PLACEMENT CALCULUS**

<b>Grade Level</b>	<b>11 12</b>	<b>Value:</b>	<b>Honors, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Grade of "B" or higher in Honors Pre-Calculus and Departmental Determination</b>		

Course includes the study of functions, graphs, limits, derivatives, and integrals. This course follows the syllabus recommended by the College Board so that students are prepared to take the Advanced Placement Calculus AP Exam for college credit and/or college placement. A graphing calculator is required for this course.

## **STATISTICS HONORS**

<b>Grade Level</b>	<b>11 12</b>	<b>Value:</b>	<b>Honors, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Grade of “B” or higher in Pre-Calculus and Departmental Determination</b>		

This course includes the study of probability, interpretation of data, and statistical problem solving. Students will use technology to gather, organize, interpret, and draw conclusions based on data. Students will develop an understanding of the uses and abuses of statistics in our everyday world.

## **INTRODUCTION TO COMPUTER PROGRAMMING**

<b>Grade Level</b>	<b>10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Geometry</b>		

This course introduces students to the fundamentals of computer programming. Students will develop the problem solving skills necessary to program a computer to perform specific tasks. The Java programming language will be used implementing both Object Oriented Programming and Structured Top-Down Design methodologies. The course is intended for students who possess logical and deductive reasoning skills.

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## **PHYSICAL EDUCATION DEPARTMENT**

### **PHYSICAL EDUCATION 1**

<b>Grade Level</b>	<b>10</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>0.5</b>	<b>Length:</b>	<b>Semester</b>
<b>Prerequisites</b>	<b>None</b>		

Course will introduce sophomores to a wide variety of team sports, individual sports and other activities. The students will use the skills and strategies learned through participation in various activities to create and maintain a healthy lifestyle now and in the future.

### **HEALTH EDUCATION**

<b>Grade Level</b>	<b>10</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>0.5</b>	<b>Length:</b>	<b>Semester</b>
<b>Prerequisites</b>	<b>None</b>		

The overall goal of this course to introduce students to a wide variety of health topics and that they make positive healthy lifestyle choices for themselves in the future. This course is designed to enhance the awareness and knowledge needed to make important decisions about health, wellness, and individual lifestyle. Topics related to health such as personal health and wellness, social and emotional health, mental illness, stress, safety, nutrition and physical activity, alcohol/tobacco/other drugs, and sexually transmitted diseases will be discussed. Emphasis will be placed on the student's acquiring knowledge and assuming responsibility for one's own health.

## SCIENCE DEPARTMENT

### PLACEMENT OF STUDENTS:

*\*Upperclassmen are placed according to their GPA, Science, English, Math scores, and St. Edward teacher recommendation.*

*\*Incoming freshmen are placed according to their placement exam scores.*

*\*Sophomore, junior and senior students are selected by recommendations of the science teachers who study the students' records, reading levels, and achievement scores.*

### INTRODUCTION TO CHEMISTRY

<b>Grade Level</b>	<b>9</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>None</b>		

This course is a laboratory course designed for average or above average freshmen students in math and science. The course is designed to give students a basic understanding of the components of matter using elementary scientific equipment and methods. The course introduces scientific problem solving and methodical scientific reasoning.

### INTRODUCTION TO CHEMISTRY HONORS

<b>Grade Level</b>	<b>9</b>	<b>Value:</b>	<b>Honors, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Departmental determination</b>		

This is designed to give students a basic understanding of the components of matter using elementary scientific equipment and methods. The course emphasizes problem solving and methodical scientific reasoning which requires above average skills in math and science. Students taking Honors Introduction to Chemistry are required to do a scientific experiment.

### BIOLOGY

<b>Grade Level</b>	<b>10</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Introduction to Chemistry</b>		

This is a laboratory course to introduce the universal code that is present in all living things. In addition, students will study how organisms interact with one another and with the environment in ways that create our planet's web of life.

## **BIOLOGY HONORS**

<b>Grade Level</b>	<b>9 10</b>	<b>Value:</b>	<b>Honors, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Incoming freshmen may be considered for this class with overall outstanding record of achievement (4.0/4.0 scale), excellence in junior high school science program, have completed or enrolled freshmen year in Geometry, have an understanding of scientific problem solving, demonstrated basic scientific skills, and successful completion of and Departmental determination</b>		

This laboratory course is for the honors student. It is structured around the following major themes: the history of biological concepts, complementary structures and function, change of organisms through time, gene continuity, the web of life, regulation and homeostasis, and the biological basis of behavior. Themes are presented through the use of microorganisms, plants and animals. All levels of biological organizations are depicted. The interweaving of these organisms and various organization levels gives this course its structure and enables its concepts to be applied to social problems.

## **AP BIOLOGY**

<b>Grade Level</b>	<b>11 12</b>	<b>Value:</b>	<b>Honors, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Grade of “B” or higher in both Honors Biology and Honors Chemistry</b>		

This is a challenging college level course for the mature high school student. The class is a comprehensive survey of general biology that includes biochemistry, cellular biology, molecular genetics and heredity, biotechnology, diversity, structure and function of organisms, and ecology and evolution. The AP course description identifies eight major themes that link the topics into a unified conceptual framework. Lab experience is absolutely critical to learning the process of science. The laboratory experience will allow students to manipulate equipment and data, draw conclusions, and think analytically.

## **ANATOMY AND PHYSIOLOGY**

<b>Grade Level</b>	<b>11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>“B” or higher in Biology 1 Honors, Chemistry 1 Honors each semester and Departmental determination</b>		

This course provides students with the opportunity to do advanced study and gain college level information while still in high school. The course is designed to satisfy the requirements for those students who plan a college major in the sciences or simply enjoy biological sciences. Previous knowledge is assumed. The course provides a comprehensive study of the anatomy and physiology of the human body. Topics include body organization, homeostasis, cytology, histology, and the integumentary, skeletal, muscular, nervous systems and special senses. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. Laboratory work includes dissection of preserved specimens, microscopic study, physiologic experiments, computer simulations, and multimedia presentations.

### **COMPARATIVE ZOOLOGY**

<b>Grade Level</b>	<b>10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>0.5</b>	<b>Length:</b>	<b>Semester</b>
<b>Prerequisites</b>	<b>Biology (or concurrent placement in Biology)</b>		

This one semester elective course allows students to explore zoology, or animal science, the field of science that explores the biological aspects of animals and their life processes. Zoology delves deeper into the life stages and cycles of animals including early-stage advancement, development, conduct, biological circulation, and grouping. It encourages us to understand the existence of animal life, the enchantment of nature and substantially more.

### **CONSERVATION BIOLOGY/WILDLIFE CONSERVATION**

<b>Grade Level</b>	<b>10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>0.5</b>	<b>Length:</b>	<b>Semester</b>
<b>Prerequisites</b>	<b>Biology (or concurrent enrollment in Biology)</b>		

Students in this one semester elective course will study wildlife and conservation science which includes the study of overseeing local plants and creatures. It intends to confine the impacts of ecological debasement, environmental change and the loss of biodiversity. This subject is based upon environmental establishments drawn from natural science, hereditary qualities and zoology. Zoologists apply these to the protection of species and biological systems.

### **CHEMISTRY**

<b>Grade Level</b>	<b>10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Introduction to Chemistry, Biology, and Algebra 2 or concurrent enrollment.</b>		

This is a laboratory course intended for students requiring a strong science background for college or technical positions. Emphasis is placed upon activities involving collaboration, experimentation, and critical thinking. Scientific method and communication are heavily stressed. Topics to be studied include: metric measurement and calculations, matter and energy, gas laws, atomic structure and theory, nomenclature, reaction equations and stoichiometry, solutions, acids and bases, and equilibrium.

### **CHEMISTRY HONORS**

<b>Grade Level</b>	<b>10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Honors Introduction to Chemistry, Honors Biology, and Algebra 2 or concurrent enrollment.</b>		

This is similar in content to Chemistry, but involves more in-depth and independent study of the topics listed. Analytical thinking is emphasized.

## **ADVANCED PLACEMENT CHEMISTRY**

<b>Grade Level</b>	<b>11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Grade of “C” or above in Honors Chemistry and Algebra 2, or “B” in Regular Chemistry and Algebra 2.</b>		

AP Chemistry is designed to be the equivalent of the General Chemistry course usually taken during the first year of college. It emphasizes (a) a depth of understanding of fundamentals and a reasonable competence in dealing with chemical problems, and (b) developing abilities to think clearly and to express ideas, orally and in writing, with clarity and logic. Important topics include: structure and states of matter, kinetic theory of gasses, chemical equilibria, chemical kinetics, thermodynamics, and redox. Lab work will emphasize the interpretation and analysis of experimental data.

## **EARTH SCIENCE**

<b>Grade Level</b>	<b>10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Concurrent placement in</b>		

This is a course designed around research and a series of laboratories that stress current research on the composition, history, and outside factors that influence and affect our earth. The research and laboratories of the course cover four areas of study: Astronomy, Geology, Meteorology, and Oceanography. Students taking the course will receive information and knowledge of the universe and world around us, including an understanding of the delicate balance that exists on our earth and in the universe where one change affects other changes.

## **PHYSICS**

<b>Grade Level</b>	<b>11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Grade of “C” or higher in Algebra 1 and Geometry and completion or concurrent enrollment in Algebra 2 or higher is required.</b>		

This is a class where the concepts of physics are used to explain phenomena that students have observed in the everyday world. Events that are familiar to the student are intended for college bound students as well as those needing a good background for technical positions.

## **PHYSICS HONORS**

<b>Grade Level</b>	<b>11 12</b>	<b>Value:</b>	<b>Honors, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Completion of pre-calculus or concurrent enrollment in pre-calculus or calculus.</b>		

This is a course not just for those interested in science, but also for those inclined toward humanities. Physics is presented, not merely as a body of facts, but basically as a continuing process by which people seek to understand the nature of the physical world. Ideas are followed or preceded by experimentation.



**FORENSICS**

<b>Grade Level</b>	11 12	<b>Value:</b>	Regular, Elective
<b>Credit</b>	1.0	<b>Length:</b>	Year
<b>Prerequisites</b>	Two years of science		

This science class will be designed around the idea that in the real world all learning is interrelated and interdependent. The class will blend science with core subject areas. Students will be asked to read, research, hypothesize, interview, compute and use deductive reasoning to propose crime solutions. The students will record data, draw conclusions, and formulate the best method for communicating results.

**INTRODUCTION TO ENGINEERING DESIGN (PLTW)**

<b>Grade Level</b>	10 11 12	<b>Value:</b>	Regular Elective
<b>Credit</b>	1.0	<b>Length:</b>	1 year
<b>Prerequisites</b>	One year of math and one year of science		

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both independently and in teams to design solutions to a variety of problems using 3D modeling software and use an engineering notebook to document their work.

**PRINCIPLES OF ENGINEERING (PLTW)**

<b>Grade Level</b>	11 12	<b>Value:</b>	Regular Elective
<b>Credit</b>	1.0	<b>Length:</b>	1 year
<b>Prerequisites</b>	Introduction to Engineering Design		

Through problems that engage and challenge, students explore a broad range of engineering topics including the mechanisms, the strengths of structures and materials, and automation. Students develop skills in problem solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

## **SOCIAL STUDIES DEPARTMENT**

*All students are required to take three years of Social Studies. These are taken during the freshmen, junior and senior years. \*Placement in any honors or AP classes is determined by: Standardized entrance exam scores (freshmen), social studies course grades and teacher recommendation, and overall GPA (junior and senior).*

### **GLOBAL ISSUES IN HISTORY & CONTEMPORARY TIMES**

<b>Grade Level</b>	<b>9</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>			

This is a one-year world history survey course required of all freshmen. Students gain knowledge of the history and culture of China, Russia, the Middle East, and other selected areas. They compare political systems, examine European nationalism, and analyze world changes from the Industrial Revolution to modern times.

### **UNITED STATES HISTORY**

<b>Grade Level</b>	<b>11</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>None</b>		

This is a one-year U.S. History survey course required of all juniors, unless taking AP U.S. History. Students analyze the past in order to better understand the present and the future, thereby preparing them to be informed and interested citizens. In addition to geography, topics studied include the Revolutionary War, the Civil War, Industrialization, World War I, the Jazz Age, World War II, and Modern America (Truman to present).

### **UNITED STATES GOVERNMENT**

<b>Grade Level</b>	<b>12</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Semester</b>
<b>Prerequisites</b>	<b>None</b>		

This is a one—semester political survey course required of all seniors. Students will gain a better understanding of the federal and local governments, thereby becoming more knowledgeable and active citizens. The origins of the American Government as well as its current political system will be discussed, and the workings of the three branches of the U.S. Government will be analyzed in detail. **In order to graduate, each student must pass the U.S. Constitution and Illinois Constitution test given during this class.** (Passing the course does not necessarily indicate that a student has passed this test.)

## UNITED STATES GOVERNMENT HONORS

<b>Grade Level</b>	<b>12</b>	<b>Value:</b>	<b>Honors, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Semester</b>
<b>Prerequisites</b>	<b>Departmental determination</b>		

This is a one—semester political survey course required of all seniors. Students will gain a better understanding of the federal and local governments, thereby becoming more knowledgeable and active citizens. The origins of the American Government as well as its current political system will be discussed, and the workings of the three branches of the U.S. Government will be analyzed in detail. **In order to graduate, each student must pass the U.S. Constitution and Illinois Constitution test given during this class.** (Passing the course does not necessarily indicate that a student has passed this test.)

## ECONOMICS

<b>Grade Level</b>	<b>12</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Semester</b>
<b>Prerequisites</b>	<b>None</b>		

This is a one-semester business oriented course required of all seniors. Topics studied include the basic principles of economic systems, investments, supply and demand, pricing, tax structure, and banking. The course helps students gain a deeper understanding of the U.S. economic system and their roles in it. Emphasis is placed on the individual's everyday involvement in the economy.

## ECONOMICS HONORS

<b>Grade Level</b>	<b>12</b>	<b>Value:</b>	<b>Honors, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Semester</b>
<b>Prerequisites</b>	<b>Departmental determination</b>		

This is a one-semester business oriented course required of all seniors. Topics studied include the basic principles of economic systems, investments, supply and demand, pricing, tax structure, and banking. The course helps students gain a deeper understanding of the U.S. economic system and their roles in it. Emphasis is placed on the individual's everyday involvement in the economy.

## PSYCHOLOGY

<b>Grade Level</b>	<b>11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Grade of "C" average or above in previous social studies and English classes.</b>		

This is a one-year elective course for juniors and seniors. By studying the relationship between mind and body, students learn to understand themselves and those around them better. They acquire the roots for coping in a stressful world. Topics include Motivation and Emotion, Memory and Thought, Altered States of Consciousness, The Life Span, and Abnormal Behavior. Psychology helps students deal with all other subjects and life in general.

## **AP PSYCHOLOGY**

<b>Grade Level</b>	<b>11 12</b>	<b>Value:</b>	<b>Honors, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Departmental determination</b>		

This is a one-year elective course designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. The aim of the course is to provide the student with a learning experience equivalent to that obtained in most college introductory psychology courses. In order to be admitted, students must meet the necessary requirements.

## **HISTORICAL CHICAGO**

<b>Grade Level</b>	<b>9(with permission), 10, 11, 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>0.5</b>	<b>Length:</b>	<b>Semester</b>
<b>Prerequisites</b>	<b>None</b>		

This is a one semester course designed to give students a comprehensive understanding of the settlement & growth of Chicago. Students will gain an understanding of the political & socio-economical events which helped shape Chicago's rich past. In addition, the class will support the student's working knowledge of the city and their exposure to Chicago's current social, political and economic climate. They will analyze the past to help better understand Chicago's contemporary times & issues. Students will be challenged to recognize the cause and effect of the most important events in Chicago's history. The course will provide the groundwork for understanding of the settling of Chicago by the French and the impact it had on the Native Americans from the area. Students will then trace the planning, organization and urban development of the city while also examining the impact of immigration, industrialization, labor issues and innovation.

## **HISTORY OF ART**

<b>Grade Level</b>	<b>9 10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>0.5</b>	<b>Length:</b>	<b>Semester</b>
<b>Prerequisites:</b>	<b>None *Cross-listed in Fine and Applied Arts</b>		

This course presents an introduction to world art and architecture starting with prehistoric art and chronologically examining our cultural development until present day contemporary art. Each student will learn to identify artifacts, important art concepts and learn to compare their characteristic features. Students will also learn the production of art, and how it is linked to social, political, economic, religious, and historical conditions. Throughout the year, students will develop the essential skills of visual and contextual analysis by examining works of art from diverse periods of history and cultures around the world. Everyone will be challenged to think critically about works of art in their contexts, consider issues of patronage, gender, politics, religion and ethnicity. Students will learn how to interpret artifacts by recognizing their intended use, audience and role of the artist and its historical significance.

## THEOLOGY DEPARTMENT

### **THEOLOGY 1**

<b>Grade Level</b>	<b>9</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>None</b>		

#### **First Semester: The Revelation of Jesus Christ in Scripture**

The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible they will come to encounter the living Word of God, Jesus Christ. In the course they will learn about the Bible, authored by God through Inspiration, and its value to people throughout the world. They will learn how to read the Bible and will become familiar with the major sections of the Bible and the books included in each section. The students will pay particular attention to the Gospels, where they may grow to know and love Jesus Christ more personally.

#### **Second Semester: Who Is Jesus Christ?**

The purpose of this course is to introduce students to the mystery of Jesus Christ, the living Word of God, the Second Person of the Blessed Trinity. In this course students will understand that Jesus Christ is the ultimate Revelation to us from God. In learning about who He is, the students will also learn who He calls them to be.

### **THEOLOGY 2**

<b>Grade Level</b>	<b>10</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Theology 1</b>		

#### **First Semester: The Mission of Jesus Christ (The Paschal Mystery)**

The purpose of this course is to help students understand all that God has done for us through His Son, Jesus Christ. Through this course of study, students will learn that for eternity, God has planned for us to share eternal happiness with Him, which is accomplished through the redemption Christ won for us. Students will learn that they share in this redemption only in and through Jesus Christ. They will also be introduced to what it means to be a disciple of Christ and what life as a disciple entails.

#### **Second Semester: Jesus Christ's Mission Continues in the Church**

The purpose of this course is to help the students understand that in and through the Church they encounter the living Jesus Christ. They 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. The students will come to know that the Church is the living Body of Christ today. This Body has both divine and human elements.

### **THEOLOGY 3**

<b>Grade Level</b>	<b>11</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Theology 2</b>		

#### **First Semester: History of the Catholic Church**

The purpose of this course is to supply the students with a general knowledge of the Church's history from apostolic times to the present. They will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by Him throughout history through the Holy Spirit. The students will come to know that the Church is the living Body of Christ today and, as such, has both divine and human elements. In this course, students will learn about the Church's 2,000 years of history and about how the Church is led and governed by the successors of the Apostles.

#### **Second Semester: Sacraments as Privileged Encounters with Jesus Christ**

The purpose of this course is to help students understand that they can encounter Christ today in a full and real way in and through the sacraments, and especially through the Eucharist. Students will examine each of the sacraments in detail so as to learn how they may encounter Christ through life.

### **THEOLOGY 4**

<b>Grade Level</b>	<b>12</b>	<b>Value:</b>	<b>Regular, Required</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Theology 3</b>		

#### **First Semester: Life in Jesus Christ**

The purpose of this course is to help students understand that it is only through Christ that they can fully live out God's plans for their lives. Students are to learn the moral concepts and precepts that govern the lives of Christ's disciples.

#### **Second Semester: Responding to the Call of Jesus Christ**

The purpose of this course is to help students to understand the vocations of life: how Christ calls us to live. In this course students should learn how all vocations are similar and how they differ. The course should be structured around married life, single life, priestly life, and consecrated life. Students should learn what it means to live life for the benefit of others and the value in considering a vocation in service to the Christian community.

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## WORLD LANGUAGES DEPARTMENT

*Placement in World Language Honors or AP classes is determined by teacher and Department Chair recommendation.*

*The student should show consistent motivation to achieve in the areas of oral communication, reading, writing and in class participation.*

### **FRENCH 1**

<b>Grade Level</b>	<b>9 10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>None</b>		

This course has the following aims: the development of audio-lingual skills, acquaintance with the basic structures of the French language, and the practical use of these structures in simple conversations. Students will develop an appreciation of the culture of France and French-speaking countries.

### **FRENCH 2**

<b>Grade Level</b>	<b>10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Passing grade in French 1 and Departmental determination</b>		

This course has as its basic aim to strengthen listening, reading, writing, and speaking skills. More French is spoken in the classroom at this level. Students will develop a deeper appreciation of the culture of France and French-speaking countries.

### **FRENCH 3 HONORS**

<b>Grade Level</b>	<b>11 12</b>	<b>Value:</b>	<b>Honors, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Grade of "C" or higher French 2 and Departmental determination</b>		

This course aims to develop appreciation of the culture of France; to openly view France's civilization; to compare France with other countries; to speak, read, and write French more skillfully. More French is spoken in the classroom at this level.

### **FRENCH 4 HONORS**

<b>Grade Level</b>	<b>12</b>	<b>Value:</b>	<b>Honors, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Grade of "C" or above in French 3 and Departmental determination</b>		

This course aims to develop appreciation of the culture of France; to openly view France's civilization; to compare France with other countries; to speak, read, and write French more skillfully. More French is spoken in the classroom at this level.

**SPANISH 1**

<b>Grade Level</b>	<b>9 10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>None</b>		

This course is for students having little or no previous knowledge of Spanish. It emphasizes the use of practical vocabulary, oral use of the language, good pronunciation habits, introduction to grammar, and a broadening of the students' understanding of Hispanic culture.

**SPANISH 2**

<b>Grade Level</b>	<b>9 10 11 12</b>	<b>Value:</b>	<b>Regular, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Passing grade in Spanish 1 or achievement on a diagnostic test for incoming freshmen or newly enrolled St. Edward students and departmental Determination</b>		

This course continues the use of the basic principles of grammar, vocabulary, reading, writing, listening, and speaking. The student increases his/her vocabulary and gains insight into Hispanic culture and thought.

**SPANISH 3 HONORS**

<b>Grade Level</b>	<b>10 11 12</b>	<b>Value:</b>	<b>Honors, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Passing grade in Spanish 2 and Departmental determination</b>		

This course continues the grammatical structures introduced in Spanish 2 through further reading and writing experiences, while listening and speaking skills are also developed by classroom conversation. Cultural aspects of Spain and Latin America receive more emphasis.

**SPANISH 4 HONORS**

<b>Grade Level</b>	<b>11 12</b>	<b>Value:</b>	<b>Honors, Elective</b>
<b>Credit</b>	<b>1.0</b>	<b>Length:</b>	<b>Year</b>
<b>Prerequisites</b>	<b>Passing grade in Spanish 3 and Departmental determination</b>		

This course continues the grammatical structures introduced in Spanish 3 through further reading and writing experiences, while listening and speaking skills are also developed by classroom conversation. Students will encounter a larger variety of authentic language materials to aid in the advanced development of speaking, reading, listening, and writing skills. Cultural aspects of Spain and Latin America receive even more emphasis.



## FOUR YEAR COURSE OVERVIEW

	FRESHMEN	SOPHOMORE	JUNIOR	SENIOR
<b>BUSINESS/TECH</b>	<ul style="list-style-type: none"> <li>Digital Literacy</li> </ul>	<ul style="list-style-type: none"> <li>Intro to Business</li> </ul>	<ul style="list-style-type: none"> <li>Intro to Business</li> <li>Marketing</li> </ul>	<ul style="list-style-type: none"> <li>Intro to Business</li> <li>Marketing</li> </ul>
<b>ENGLISH</b> (4 Required)	<ul style="list-style-type: none"> <li>English 1- Intro Lit Genres</li> <li>English 1- Lit Genres</li> <li>English 1 Hon - Lit Genres</li> <li>Creative Writing</li> <li>Survey of Theatre</li> <li>Speech</li> <li>Publications</li> </ul>	<ul style="list-style-type: none"> <li>English 2-Intro American Lit</li> <li>English 2- American Lit</li> <li>English 2 Hon- American Lit</li> <li>Creative Writing</li> <li>Intro to Film Studies</li> <li>Publications</li> <li>Speech</li> <li>Survey of Theatre</li> </ul>	<ul style="list-style-type: none"> <li>English 3 - British Lit</li> <li>English 3 – British Lit Hon</li> <li>AP English Lang &amp; Comp</li> <li>Creative Writing</li> <li>Intro to Film Studies</li> <li>Publications</li> <li>Speech</li> <li>Survey of Theatre</li> </ul>	<ul style="list-style-type: none"> <li>English 4- World Lit</li> <li>English 4- World Lit Hon</li> <li>AP English Lit &amp; Comp</li> <li>Creative Writing</li> <li>Intro to Film Studies</li> <li>Publications</li> <li>Speech</li> <li>Survey of Theatre</li> </ul>
<b>FINE /APPLIED ARTS</b> (2 Required or 2 World Languages Required)	<ul style="list-style-type: none"> <li>Art Fundamentals</li> <li>Chorus</li> <li>Jazz Band</li> <li>Beginning Instrumental Music</li> </ul>	<ul style="list-style-type: none"> <li>Art Fundamentals</li> <li>Intermediate Art</li> <li>Art Anatomy</li> <li>History of Art</li> <li>Chorus</li> <li>Chorus Honors</li> <li>Jazz Band</li> <li>Jazz Band Honors</li> <li>Beginning Instrumental Music</li> <li>Digital Imagine</li> </ul>	<ul style="list-style-type: none"> <li>Art Fundamentals</li> <li>Intermediate Art</li> <li>Advanced Art</li> <li>Studio Art</li> <li>Art Anatomy</li> <li>History of Art</li> <li>Chorus</li> <li>Chorus Honors</li> <li>Jazz Band</li> <li>Jazz Band Honors</li> <li>Beginning Instrumental Music</li> <li>Digital Imaging</li> </ul>	<ul style="list-style-type: none"> <li>Art Fundamentals</li> <li>Intermediate Art</li> <li>Advanced Art</li> <li>Studio Art</li> <li>Art Anatomy</li> <li>History of Art</li> <li>Chorus</li> <li>Chorus Honors</li> <li>Jazz Band</li> <li>Jazz Band Honors</li> <li>Beginning Instrumental Music</li> <li>Digital Imaging</li> </ul>
<b>MATHEMATICS</b> (3 Required)	<ul style="list-style-type: none"> <li>Algebra 1 Essential</li> <li>Algebra 1</li> <li>Algebra 1 Hon</li> <li>Geometry Hon</li> </ul>	<ul style="list-style-type: none"> <li>Geometry Essentials</li> <li>Geometry</li> <li>Geometry Hon</li> <li>Algebra 2 Essentials</li> <li>Algebra 2</li> <li>Algebra 2 Hon</li> <li>Intro to Computer Program</li> </ul>	<ul style="list-style-type: none"> <li>Algebra 2 Essentials</li> <li>Algebra 2</li> <li>Algebra 2 Hon</li> <li>Pre-Calculus</li> <li>Pre-Calculus Hon</li> <li>Intro to Computer Program</li> </ul>	<ul style="list-style-type: none"> <li>Algebra 2</li> <li>Algebra 2 Hon</li> <li>Pre-Calculus</li> <li>Pre-Calculus Hon</li> <li>Statistics Hon</li> <li>Intro to College Algebra/Apps</li> <li>AP Calculus</li> <li>Intro to Computer Program</li> </ul>
<b>PHYS ED</b>		<ul style="list-style-type: none"> <li>PE/Health</li> </ul>		
<b>SCIENCE</b> (3 Required)	<ul style="list-style-type: none"> <li>Intro to Chemistry</li> <li>Intro to Chemistry Hon</li> <li>Biology Hon</li> </ul>	<ul style="list-style-type: none"> <li>Biology 1</li> <li>Biology 1 Hon</li> <li>Chemistry 1</li> <li>Chemistry 1 Hon</li> <li>Earth Science</li> <li>Conservation Biology</li> <li>Comparative Zoology</li> <li>Intro to Engineering Design</li> </ul>	<ul style="list-style-type: none"> <li>Anatomy &amp; Physiology</li> <li>AP Biology</li> <li>Chemistry</li> <li>Chemistry Hon</li> <li>AP Chemistry Oooooo</li> <li>Earth Science</li> <li>Forensics</li> <li>Physics</li> <li>Physics Hon</li> <li>Conservation Biology</li> <li>Comparative Zoology</li> <li>Intro to Engineering Design</li> <li>Principle of Engineering</li> </ul>	<ul style="list-style-type: none"> <li>Anatomy &amp; Physiology</li> <li>AP Biology</li> <li>Chemistry</li> <li>Chemistry Hon</li> <li>AP Chemistry</li> <li>Earth Science</li> <li>Forensics</li> <li>Physics</li> <li>Physics Hon</li> <li>Conservation Biology</li> <li>Comparative Zoology</li> <li>Intro to Engineering Design</li> <li>Principle of Engineering</li> </ul>
<b>SOCIAL SCIENCE</b> (3 Credits Required)	<ul style="list-style-type: none"> <li>Global Issues in History and Contemporary Times</li> <li>Historical Chicago</li> <li>History of Art</li> </ul>	<ul style="list-style-type: none"> <li>Historical Chicago</li> <li>History of Art</li> </ul>	<ul style="list-style-type: none"> <li>US History</li> <li>US History Hon</li> <li>Psychology</li> <li>AP Psychology</li> <li>History of Art</li> <li>Historical Chicago</li> </ul>	<ul style="list-style-type: none"> <li>Psychology</li> <li>AP Psychology</li> <li>Gov/Econ</li> <li>Gov/Econ Hon</li> <li>History of Art</li> <li>Historical Chicago</li> </ul>
<b>THEOLOGY</b> (4 Credits Required)	<ul style="list-style-type: none"> <li>Theology 1</li> </ul>	<ul style="list-style-type: none"> <li>Theology 2</li> </ul>	<ul style="list-style-type: none"> <li>Theology 3</li> </ul>	<ul style="list-style-type: none"> <li>Theology 4</li> </ul>
<b>WORLD LANG</b> (2 World Lang Required or 2 Fine/Applied Arts Required)	<ul style="list-style-type: none"> <li>Spanish 1</li> <li>Spanish 2</li> </ul>	<ul style="list-style-type: none"> <li>Spanish 1</li> <li>Spanish 2</li> <li>Spanish 3 Hon</li> </ul>	<ul style="list-style-type: none"> <li>French 2</li> <li>French 3 Hon</li> <li>Spanish 1</li> <li>Spanish 2</li> <li>Spanish 3 Hon</li> <li>Spanish 4 Hon</li> </ul>	<ul style="list-style-type: none"> <li>French 2</li> <li>French 3 Hon</li> <li>French 4 Hon</li> <li>Spanish 1</li> <li>Spanish 2</li> <li>Spanish 3 Hon</li> <li>Spanish 4 Hon</li> </ul>

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