



XAVIER HIGH SCHOOL

2023-2024

PROGRAM OF STUDIES





## MISSION STATEMENT

*The mission of Xavier High School is to develop the total person in a Catholic environment.*

As part of this mission, Xavier High School offers its students a rigorous and relevant academic curriculum that is permeated with Catholic teaching. As a community of life-long learners, we challenge students to pursue academic excellence and to develop habits of learning that will prepare them for any and all post-high school endeavors, whether that be college, trade school, the work force, military service or a religious vocation.

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# Graduation Requirements

In order to graduate from Xavier High School, a student must successfully complete work in well-defined areas of study. The following credits of credit are REQUIRED of all students for graduation (1 year = 10 credits – 1 semester = 5 credits):

## **Theology** 40 credits

ALL CATHOLIC STUDENTS are required to take 5 credits of Theology each semester and pass a total of 40 credits in their four years. All students must take and pass the junior courses Life in Jesus Christ and Sacraments. Seniors must take two additional electives.

NON-CATHOLIC STUDENTS are required to take 20 credits of Theology before graduation. Students are required to take Life in Jesus Christ and one senior year elective. Students may then choose 10 additional credits from any of the other courses listed.

## **English** 40 credits

English I	10 credits
English II	10 credits
English III or AP Lang/Comp	10 credits
English IV or AP Lit/Comp or Composition I & II	10 credits.

## **Social Studies** 30 credits

World Civilization	10 credits
US History	10 credits
Economics	5 credits
US Government	5 credits

## **Mathematics** 30 credits

30 credits of math during 9-12th grade

## **Science** 30 credits

Conceptual Science	10 credits
Biology	10 credits
Chemistry	10 credits

## **Fitness & Wellness** 20 credits

10 credits can be waived if the student is taking a full academic schedule. However, a student cannot waive physical fitness in their senior year if they are taking senior release.

## **Fine Arts** 5 credits

### **Minimum credits required for graduation: 260 credits**

All students are required to have 8 courses per semester. This may include teacher assistants, approved dual credit courses, Kirkwood academies and internships.

## Middle School Credit Options

These guidelines apply to courses in which a middle school student may earn Xavier High School credit:

- The course is taken & passed at the middle school or in the high school setting
- The student must take & pass the first & second semester final assessments based on the high school curriculum.
- The curriculum used in the middle school setting should be the high school curriculum.

If these are met, the student will then enroll in the next level of the appropriate class as a 9<sup>th</sup> grader.

When the above criteria are met, the student will receive high school credit for the class and the grade will be included in their High School GPA.

## Early Graduation

No student shall receive a diploma from Xavier High School in advance of his or her normal graduation date as determined by credits, grade level placement and course requirements unless an Application for Early Graduation is submitted to the principal and the principal approves the application.

For those wishing to graduate at the end of their sixth semester (end of traditional junior year), this application shall be made during the student's sophomore year at the beginning of the scheduling process for junior year (in January) but no later than the end of April.

For those wishing to graduate at the end of their seventh semester (end of first semester of traditional senior year), this application shall be made during the student's junior year at the beginning of the scheduling process for senior year (in January) but no later than the end of April.

Complete details can be found in the Student-Parent Handbook.

## Off-Campus Course Policy

Students interested in taking courses outside of Xavier HS should consult with their counselor. Off-campus classes will be allowed only if the course is not offered at Xavier.

## Senior Release

In their senior year, Xavier students may be eligible for one block of senior release. This allows seniors to leave at the end of either 3A or 3B block class. No senior may adjust his or her schedule to accommodate senior release and certain expectations, listed below, accompany this privilege.

In order to be eligible for senior release, students must be enrolled/scheduled for at least seven classes including Fitness/Wellness, even if the Fitness/Wellness requirement has been met.

1. Senior release for any student is one fourth block only.
2. Students must schedule senior release through student services in the same manner as scheduling all classes.
3. Any student leaving after the end of third block need not sign out at the main office for senior release.
4. Any student who leaves before the end of third block is expected to sign out of the main office and validate their absence with a parental excuse.
5. Seniors on release must be in dress code while in the building.
6. Seniors on release may not loiter in the building during fourth block. Students must leave the building within the five minutes of the start of fourth block or may elect to do academic work in the LMC until the end of the school day. Once seniors on release have left for the day, they must not return to the building for any reason until five minutes after regular dismissal time.
7. Eligible seniors are asked to remain quiet at all times and to not loiter in the building or the parking lot.
8. Senior release may be rescinded at any time by members of the administrative staff for any student on academic deficiency or if expected standards of behavior are not being met.

## **Regent Admission Index (RAI) to Iowa Public Universities**

Iowa State University, the University of Northern Iowa, and The University of Iowa use the Regent Admission Index (RAI) to determine automatic admission of high school seniors. The RAI equation factors the ACT composite score, high school GPA, and the number of core classes taken to determine the RAI score. Please visit <http://www.regents.iowa.gov/RAI/> for the most up to date information regarding the RAI. Keep in mind that Xavier HS does not use class rank and our students will use the Alternative RAI index.

Freshman applicants who achieve at least a 245 RAI score and who meet the minimum number of high school courses required by the Regent universities, will qualify for automatic admission to any of the three Regent universities. Freshman applicants who achieve less than a 245 score may also be admitted to a specific Regent university; however, each Regent university will review these applications on an individual basis.

## Core Courses Required for Regent University Admission

Subject Area	Iowa State University	University of Iowa	University of Northern Iowa
English/Language Arts	4 years emphasizing writing, speaking, and reading, as well as an understanding and appreciation of literature.	4 years, with an emphasis on the analysis and interpretation of literature, composition and speech.	4 years, including one year of composition; may also include one year of speech, communication, or journalism.
Math	3 years, including one year each of algebra, geometry, and advanced algebra.	3 years, including two years of algebra and one year of geometry, for admission to the College of Liberal Arts and Sciences.  4 years, including two years of algebra, one year each of geometry and higher math (trigonometry, analysis or calculus), for admission to the College of Engineering.	3 years, including the equivalent of algebra, geometry and algebra II.
Natural Science	3 years, including at least two years of courses which emphasize elements of biology, chemistry or physics.	3 years, including courses in physical science, biology, chemistry, environmental science and physics for admission to the College of Liberal Arts and Sciences.  3 years, with at least one year each in chemistry and physics, for admission to the College of Engineering. Nursing - 3 years including one year each of biology, chemistry and physics.	3 years, including courses in general science, biology, chemistry, earth science or physics. Laboratory experience highly recommended.
Social Studies	2 years for admission to the Colleges of Agriculture and Life Sciences, Business, Design, Human Sciences and Engineering.  3 years for admission to the College of Liberal Arts and Sciences.	3 years, with U.S. history and world history recommended for admission to the College of Liberal Arts and Sciences.  2 years, with U.S. history and world history recommended, for admission to the College of Engineering.	3 years, including courses in anthropology, economics, geography, government, history, psychology or sociology.
World Languages	2 years of a single world language for admission to the College of Liberal Arts and Sciences and the College of Engineering.	2 years of a single world language are required for admission.	World language courses are not required for admission. However, two years of a world language in high school with a C- or above in the last term will meet the university graduation requirement.
Other Courses	Specific elective courses are not required for admission.	Specific elective courses are not required for admission.	2 years of additional courses from the required subject areas, world languages or fine arts.

## NCAA Eligibility

Student athletes wishing to play at the collegiate level should visit the NCAA Eligibility Center online at: <https://web3.ncaa.org/ecwr3/>. The six-digit CEEB code for Xavier HS is 160689. Courses that qualify as core courses for NCAA are noted in this guidebook with (NCAA) next to the course name.

## NAIA Eligibility

The NAIA Eligibility Center is responsible for determining the NAIA eligibility of first-time athletes. Any student playing NAIA sports for the first time must meet their eligibility requirements. Students must have their eligibility determined by the NAIA Eligibility Center, and all NAIA schools are bound by the center's decision. High School seniors who wish to participate at an NAIA school need to register at: [www.playnaia.org](http://www.playnaia.org)

## Course Offering Policy

This guidebook lists all the courses currently being offered for the upcoming school year. The decision to offer a course is made by the administration and is determined, in part, by student interest, enrollment, and availability of faculty. Furthermore, the number of sections and seats for a course may be limited. This can result in students being unable to enroll in a particular class.

## Course Change Policy

Students can change their schedule prior to the start of new semester or year during one of the scheduled change times set up by the counselors. Students wishing to make a schedule change after the start of the semester must see a school counselor to obtain a schedule change form. The form must be signed by student, teachers, parents, and administration before any changes will be approved and implemented.

Deadlines for Changes:

- 4 school days to change class or level by student request with teacher, parent & administrative approval

## Course Retake Policy

If a student fails a required course, that grade is reported on the student's transcript. A student must then retake the semester that the student has failed. A transcript is a document that records a student's academic history; therefore that grade will stay on the transcripts and will be figured into the GPA. The student's new grade for the course will also be recorded on the student's transcript and is figured into the GPA.

For classes that are elective, students may retake the class if they receive a D+ or below with department head approval. The grade for each class is recorded and figured into the GPA.



## Course Information, Requirements and Prerequisites

Each course offered for the upcoming school year is listed in this guidebook. Students must pay close attention to the grade offerings and prerequisites for each course. If a student registers for a course for which they have not met the prerequisites, they will be re-registered for a course for which they have met the requirements. If a student does not meet a prerequisite for a course but would like to be considered for entry, they will need to communicate with their counselor. The final course placement decision will be left to the Department Chair.

### AP Courses:

Advanced Placement (or AP) Courses offer students advanced course knowledge that will prepare them to take the College Board AP Exam at the end of the school year. If the student scores high enough on the AP Exam, colleges may allow college credit, advanced placement or both depending on the college. AP Exams are held only once a year in May. There is an additional cost to take an AP exam.

#### AP Courses:

Biology	English Language & Comp	Statistics
Calculus AB	English Literature & Comp	2D, 3D & Drawing
Chemistry	Physics 1: Algebra Based	US Government & Politics
Computer Science A	Physics C: Mechanics	US History
Computer Science Principles	Spanish Language & Culture	

### Dual Credit Courses:

Xavier HS offers dual credit courses in conjunction with St. Louis University, Kirkwood Community College, Mt. Mercy University & the University of Iowa. After completing a dual credit course at Xavier, students are eligible for college credit with a qualifying grade. In order to receive dual credit, students must pay tuition and request transcripts from the issuing college or university be sent to their undergraduate college for admission.

#### St. Louis University (SLU) Dual Credit Courses: (additional tuition required)

Students must meet a minimum GPA requirement of 3.0 in order to qualify for SLU dual credit. There is also an 11 credit hour maximum in each term so students do not overextend themselves. For example, a 4 credit hour year-long course (AP Bio or AP Calculus) will be considered 4 credits in the Fall & 4 credits in the Spring.

Xavier Course Name	SLU Course Name	Course #	Xavier Term	Credits
<b>FIRST SEMESTER</b>				
<b>12th - AP English Lit &amp; Comp S1</b>	Adv Strategies Rhetoric & Research	ENGL 1900	Sem 1	3
<b>AP US History S1</b>	History of the U.S. to 1865	HIST 1600	Sem 1	3
<b>College Algebra</b>	College Algebra	MATH 1200	Year-Long	3
<b>AP Statistics</b>	Elementary Computers with Stats	MATH 1300	Year-Long	3
<b>Pre-Calculus</b>	Pre-Calculus	MATH 1400	Year-Long	3
<b>AP Calculus</b>	Calculus I	MATH 1510	Year-Long	4
<b>Philosophy of Theology</b>	Intro to Philosophy-Self and Reality	PHIL 1050	Sem 1	3
<b>AP Biology</b>	General Biology: Information Flow and Evolution	BIOL 1240 & 1245	Year-Long	4
<b>SECOND SEMESTER</b>				
<b>AP US Government</b>	American Politics	POL 1100	Sem 2	3
<b>12th - AP English Lit &amp; Comp S2</b>	Gender, Identity and Literature	ENGL 2550	Sem 2	3
<b>AP US History S2</b>	History of the US since 1865	HIST 1610	Sem 2	3
<b>Comparative Religions</b>	Religions of the World	THEO 2710	Sem 2	3

**University of Iowa Dual Credit Courses: (additional tuition required)**

Xavier Course Name	U of Iowa Course Name	Xavier Term	Credits
<b>Healthcare Innovator</b>	Healthcare Innovator	Sem 2	3
<b>Entrepreneurship &amp; Innovations</b>	Entrepreneurship & Innovations	Sem 2	3

**Mount Mercy University: (additional tuition required)**

Xavier Course Name	Mt. Mercy Univ. Course Name	Xavier Term	Credits
<b>Personal Financial Management</b>	Personal Financial Management	Sem 2	3

**Kirkwood Community College Dual Credit Courses: (No additional tuition required)**

Xavier Course Name	Kirkwood Course Name	Xavier Term	Credits
<b>PLTW Intro to Engineering Design</b>	Intro to Engineering Design	Year-Long	3
<b>PLTW Principles of Engineering</b>	Principles of Engineering	Year-Long	3

## Kirkwood Career Academies: (no additional tuition required)

Xavier students have the opportunity to explore high demand-careers while earning both high school and college credit. Xavier High School has teamed up with Kirkwood Community College and other area high schools to create several career academy programs. When enrolled in the academy of your choice, you will explore careers, develop new skills and gain insights into today's workplace and career fields. Options included are sequences of career-focused, college credit classes that often lead to industry-recognized skills or certification. Students take two courses per semester from a career list of college transfer options. Students are required to take the courses assigned to their "Academy" or career. Students do not get to pick & choose which courses they would like to take. These courses are offered at no additional cost and are worth 5 credits each. Please refer to Career Academies at: <https://www.kirkwood.edu/programs/career-academies> for a list of current academies (academies are continually updated due to interest, enrollment & demand in the field).

## Workplace Learning Connection Student Internships: (no additional cost)

The WLC Student Internship Program is coordinated through Workplace Learning Connection. Local employers partner with schools to offer this unique opportunity for work-based learning. Students may apply for a career specific internship opportunity within their pathway of interest. Interested students must successfully complete an application and interview in the selection process. Applications, internship job descriptions, and session schedules can be found at [www.workplace-learning.org](http://www.workplace-learning.org). Students learn new skills, apply classroom knowledge and develop successful workplace behaviors. Students must complete 45 or 90 credits of on-site learning during the term, attend and participate in 6 credits of career skill development meetings and complete a guided student journal in order to receive elective high school academic credit (2.5 or 5 credits respectively). Sessions are offered throughout the school year and summer. Summer internships are open for application to current sophomores and juniors. There is no cost to participate in this program. Credits earned for an internship are 1.5 credits & 3 credits respectively.

## Weighted Grading Scale:

Grade	Level 5	Level 7	AP/Dual Credit
A+	4.33	4.67	5.0
A	4.0	4.33	4.67
A-	3.67	4.0	4.33
B+	3.33	3.67	4.0
B	3.0	3.33	3.67
B-	2.67	3.0	3.33
C+	2.33	2.67	3.0
C	2.0	2.33	2.67
C-	1.67	2.0	2.33
D+	1.33	1.67	2.0
D	1.0	1.33	1.67
D-	.67	1.0	1.33
F	0	0	0

## Honor Roll Requirements:

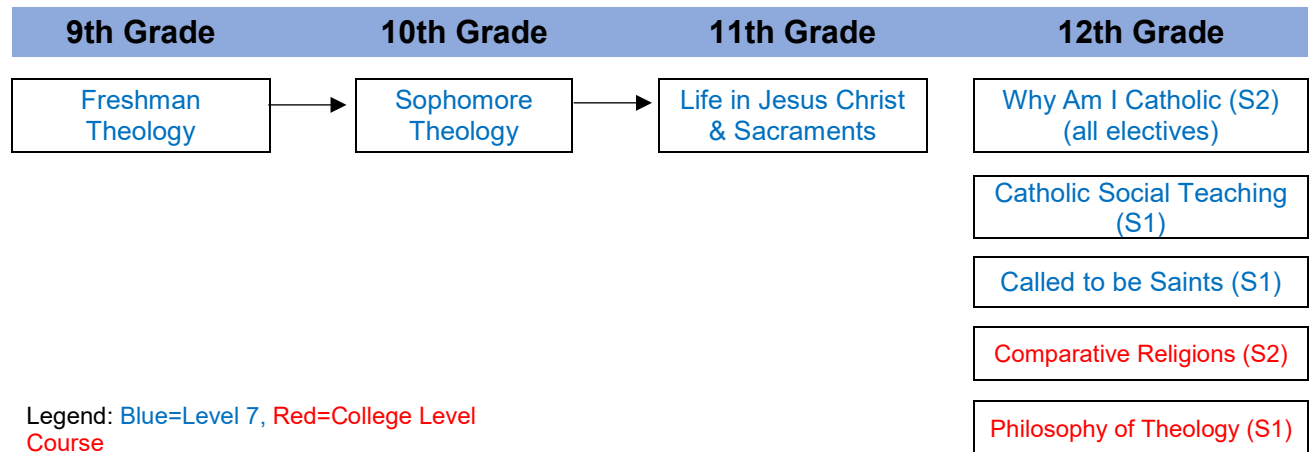
Outstanding Academic Achievement is recognized with inclusion in one of the following Xavier High School Honor Rolls:

- Distinguished Honors – G.P.A. of 4.25 or higher
- High Honors – G.P.A. of 3.75 – 4.24
- Honors – G.P.A. of 3.25 – 3.74

# Theology Courses

ALL CATHOLIC STUDENTS are required to take 5 credits of Theology each semester and pass a total of 40 credits in their four years. All students must take and pass the junior courses Life in Jesus Christ and sacraments. Seniors must take two additional electives.

NON-CATHOLIC STUDENTS are required to take 20 credits of Theology before graduation. Students are required to take Life in Jesus Christ and one senior year elective. Students may then choose 10 additional credits from any of the other courses listed.



<b>Freshman Theology</b> Level 7 – 1114/1115 (Yearlong)	Required (for Catholic students)	Credits: 10	Grade: 9 PreReq: None
The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible students 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. Students 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. Paying particular attention to the Gospels, students will grow to know and love Jesus Christ more personally. <i>United States Conference of Catholic Bishops (USCCB) Curriculum.</i>			
<b>Sophomore Theology</b> Level 7 – 1214/1215 (Yearlong)	Required (for Catholic students)	Credits: 10	Grade: 10 PreReq: None
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 all 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. <i>United States Conference of Catholic Bishops (USCCB) curriculum.</i>			
<b>Life in Jesus Christ</b> Level 7 – 1321 (S2)	Required	Credits: 5	Grade: 11 PreReq: None

The purpose of this course is to help students understand that it is only through Christ that they can fully live out God's plan for their lives. Students are to learn the moral concepts and precepts that govern the lives of Christ's disciples. *United States Conference of Catholic Bishops (USCCB) curriculum.*

<b>Sacraments</b> Level 7 – 1310 (S1)	Required (for Catholic students)	Credits: 5	Grade: 11 PreReq: None
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 throughout life. <i>United States Conference of Catholic Bishops (USCCB) Curriculum.</i>			
<b>Catholic Social Teaching</b> Level 7 – 1414 (S1)	Elective	Credits: 5	Grade: 12 PreReq: None
This course applies the Catholic Church's message of Jesus to people's daily lives, specifically in their relationships with each other. Drawing from the wisdom of the prophets and the life and teachings of Jesus, these doctrines tell us who we are and how God wants us to act toward each other. Having the authority of the Holy Spirit to guide it, the Catholic Church presents this body of teaching to the world in order to provide principles for reflection, criteria for judgment, and guideline for action. <i>United States Conference of Catholic Bishops (USCCB) curriculum.</i>			
<b>Comparative Religions</b> (RAI, SLU) Dual Credit – 1441 (S2)	Elective	Credits: 5	Grade: 12 PreReq: None
The purpose of this course is to help students understand the manner in which the Catholic Church relates to non-Catholic Christians as well as to other religions of the world. Building on the foundational truth that Jesus Christ established the Catholic Church and entrusted to her the fullness of God's revelation, the course is intended to help students recognize ways in which important spiritual truths can also be found in non-Catholic Christian churches and ecclesial communities as well as in non-Christian religions. It is also intended to help students to recognize the ways in which other systems of belief and practice differ from the Catholic faith. <i>United States Conference of Catholic Bishops (USCCB) Curriculum.</i>			
<b>Why Am I Catholic?</b> Level 7 – 1471 (S2)	Elective	Credits: 5	Grade: 12 Pre-Req: None
This course explores the very identity of our Catholic faith. Issues covered include the logic of believing in God, development of the Bible; continuity of Catholic teaching (Church Fathers and papal infallibility), death issues (heaven, hell, Purgatory, salvation), Eucharist and the Blessed Virgin Mary. Students will read the book <i>Case for Christ</i> to gain knowledge of the formation of the Gospels, the words and actions of Jesus, and the Resurrection. A paper of further research on one of the book topics will be chosen. Emphasis of the course is on the logic behind Catholic teachings, and students' ability to explain this logic to others.			
<b>Philosophy of Theology</b> (RAI, SLU) Dual Credit – 1478 (S1)	Elective	Credits: 5	Grade: 12 Pre-Req: None

This course will introduce students to western philosophy by having them read some of the best philosophers from each of the major periods of its history: Ancient (Plato and Aristotle), medieval (Augustine and Aquinas), and modern (Descartes) and apply their philosophies (metaphysics, epistemology and ethics) as a basis for understanding Catholic Scripture and Catholic teaching. Students will also occasionally read relevant works by more contemporary philosophers and apply their thought processes to the same understanding of Catholic scripture.

<b>Called to be Saints</b>	Elective	Credits: 10	Grade: 12
Level 7 - 1490 (S1)			Pre-Req: None

This course is a senior elective that requires students to pray and act in the manner of saints. We will seek to emulate these Saints by studying their lives, praying intently, and walking humbly with our neighbors in the downtown Cedar Rapids area. The course will be oriented around the seven themes of Catholic Social Teaching, and their application in today's world. Students will meet in a designated area of downtown Cedar Rapids, and engage in continued volunteerism with nonprofit organizations located there. The class will meet for two consecutive afternoon blocks, allowing for extended opportunities in prayer and work.

## English Courses

<b>English I</b> (RAI, NCAA)	Required	Credits: 10	Grade: 9
Level 5 - 2150/51 (Yearlong)			PreReq: None
Level 7 - 2170/71 (Yearlong)			

The student is offered a program that enables him/her to speak, listen, read and write with increasing understanding. Literature is studied by genre, including short story, drama, poetry, novel and mythology. A literature-based research paper is written by each student as well as a five-paragraph essay. A sequential vocabulary program is followed throughout the year. The emphasis in each area varies with the level.

<b>English II</b> (RAI, NCAA)	Required	Credits: 10	Grade: 10
Level 5 – 2250/51 (Yearlong)			PreReq: None
Level 7 – 2270/71 (Yearlong)			

This course builds on the language arts program introduced in English I. The study of literature is by genre. Public speaking and written assessments place emphasis on the effective use of language as a tool of self-expression. A literature-based research paper is written by each student. The vocabulary program is continued from the freshman year.

<b>English III</b> (RAI, NCAA)	Required	Credits: 10	Grade: 11
Level 5 – 2350/51 (Yearlong)			PreReq: None
Level 7 – 2370/71 (Yearlong)			

The core course for juniors includes the three basic areas of English study: literature, language and composition. The emphasis in each area varies with the level. Literature is a thematic survey of American writings as they were formed by the people and issues of the times. Students complete one college-level research essay each semester.

<b>English IV (RAI, NCAA)</b> Level 5 – 2454/55 (Yearlong) Level 7 – 2476/77 (Yearlong)	Required	Credits: 10	Grade: 12 PreReq: None
This course combines elements of world literature, modern fiction, and essential writing skills. Students will be expected to read selections of literature that will expose them to different cultures and worldviews. Students will be exposed to mystery, fantasy, and science fiction literature. They will also be expected to complete several writing assignments. The student's critical thinking, analysis, and discussion are essential for the work done in class. Emphasis will be on developing a student's ability to critique his/her own writing while improving writing skills.			
<b>AP English Lang &amp; Comp</b> (RAI, NCAA, SLU) Dual Credit - 2582/83 (Yearlong)	Elective	Credits: 10	Grade: 11 PreReq: None
An AP English Language and Composition course engages students in the careful reading and critical analysis of rhetoric and rhetorical devices. Through the close reading of selected fiction and nonfiction texts, students deepen their understanding of the ways writers purposely use language for an intended audience. As they read, students will use different lenses to examine the implications of a writer's words, while formulating ideas of their own on certain significant matters in their world. AP English Language and Composition will specifically look at old and new pieces of writing, from classical authors to modern voices, with an emphasis on American writers, that focus on important aspects of the writers' culture and lives. Students will read and research works from modern-day literature, then create a synthesis paper with respect to that work. Students interested in taking the Advanced Placement Exam in English Language and Composition for possible college credit should register for this course.			
<b>AP English Lit &amp; Comp</b> (RAI, NCAA, SLU) AP – 2580/81 (Yearlong)	Elective	Credits: 10	Grade: 12 PreReq: None
AP English Literature and Composition course engages students in the careful reading and critical analysis of diverse literature and rhetoric. Through the close reading of selected texts, students deepen their understanding of the way writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism and tone. Specifically, this course focuses on the study of drama and prose fiction works and requires the student to hone skills in analytical reading, thinking, discussing, and writing. Students interested in taking the Advanced Placement Exam in English Literature and Composition or registering for dual enrollment credits through SLU should take this course.			
<b>Strategic Reading</b> Level 5 –2120/2122 (Yearlong)	Elective	Credits: 10	Grade: 9,10 PreReq: Teacher recommendation
This course is provided for students who wish to increase their reading abilities in comprehension. It also focuses on improving writing, grammar and spelling skills. This course if taken alongside English I or II. Approval from the instructor is required. . <i>*This course is pass/fail. Please pass/fail section for further details on grading.</i>			
<b>Beginning Journalism</b> (RAI, NCAA) Level 7 – 2610/11 (Yearlong)	Elective	Credits: 10	Grade: 9-12 PreReq: None



This is an introductory course that teaches students the basic skills of journalistic writing as well as the editing, design and desktop publishing necessary for working on the school newspaper. The course also covers a study of the modern press and journalism ethics. Students must sign up for a full year. This class serves as a prerequisite for Advanced Newspaper Production.

### Advanced Newspaper Production

Elective

Credits: 10

Grade: 10-12

Level 7 – 2620/21 (Yearlong)

PreReq: Beg Journ  
or Gr. Design

Students in this class assume all responsibility for the production of the school's biweekly online newspaper. Beginning Journalism is a prerequisite for this course. This includes article writing, design and editing. Students can apply for leadership roles in their respective sections.

### Yearbook Production

Elective

Credits: 10

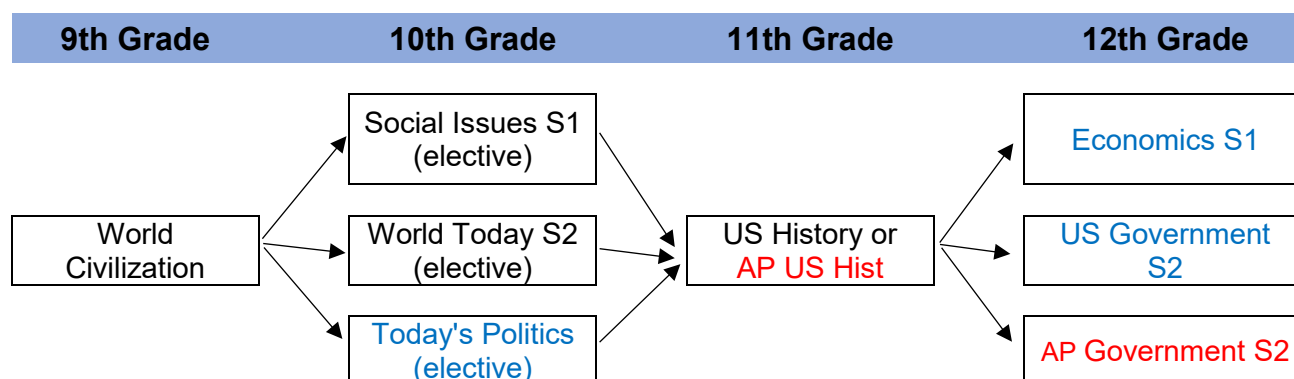
Grade: 9-12

Level 5 – 2710/11 (Yearlong)

PreReq: None

Students in this course will learn basic journalistic styles of writing, editing, and design. They will create yearbook spreads and master the online program that assists with the production of the school yearbook. Students are also responsible for learning basic photography skills and taking photos at school events. No previous journalism experience is necessary. This course is not applicable as core English.

## Social Studies Courses



Legend: Black=Level 5 or 7, Blue=Level 7, AP US Hist & Gov courses available also

### World Civilization (RAI, NCAA)

Required

Credits: 10

Grade: 9

Level 5 – 3156/57 (Yearlong)

PreReq: None

Level 7 – 3176/77 (Yearlong)

World Civilizations is a year-long course that covers world history from a regional perspective. The course begins with an overview of non-Western civilizations including Africa, the Americas, Asia and the Middle East. The second semester focuses on European history, moving chronologically from the classical period of the Greeks and Romans through World War One. In addition, special focus is placed on revolutions, architecture and the five major world religions.



<b>Social Issues Today</b> (RAI, NCAA) Level 5 – 3210 (S1) Level 7 – 3270 (S1)	Elective	Credits: 5	Grade: 10 PreReq: None
Current events and issues are combined with sociology topics, including Aging and Health Care, Poverty, Social Media, Security, Opioids and Drug Abuse, and Race. Students will conduct research on various topics with the goal of forming opinions on how to best address these topics, and debating these conclusions with others. Guest speakers will be sought for all topics, and local connections to all issues will be made.			
<b>The World Today</b> (RAI, NCAA) Level 5 – 3221 (S2) Level 7 – 3227 (S2)	Elective	Credits: 5	Grade 10 PreReq: None
The World Today will examine the regions and peoples of the world from a modern perspective. Students will compare cultures through the use of current events, geography, politics, and history to form opinions and strategies on world issues. Emphasis is on the examination and problem-solving of current international events. Further research into a culture of particular interest to individual students is also required and guest speakers from around the world are sought out to give students a global outlook.			
<b>Today's Politics</b> (RAI, NCAA) Level 7 – 3251 (S2)	Elective	Credits: 5	Grade: 10,11,12 PreReq: None
This course is a one-semester course offered in the spring for students with an interest in government and politics. Students will build on their understanding of government operations through the study of modern-day politics, political parties, international affairs, active citizenship, local government, and the application of Catholic stances on different political issues.			
<b>United States History</b> (RAI, NCAA) Level 5 – 3356/57 (Yearlong) Level 7 – 3376/77 (Yearlong)	Required	Credits: 10	Grade: 11 PreReq: None
Our nation's past is examined in a comprehensive survey of the history of the United States. The course will incorporate various social sciences and humanities to aid in a better understanding of our nation's history. Units include: Colonization, Revolution and Republic, Civil War Era, Western Migration and Industrialization, Age of Imperialism and World War I, 1920's and 1930's, World War II, Postwar America, 1960's and Vietnam, Civil Rights Movement, and Modern Age.			
<b>AP U.S. History</b> (RAI, NCAA, SLU) AP/Dual - 3480/81 (Yearlong)	Elective	Credits: 10	Grade: 11,12 PreReq: None
AP US History is designed to provide students with a thorough knowledge of United States History. This year-long course encompasses all eras from pre-Columbian to the present. Special attention is given to analyzing primary source materials and developing the "historical thinking skills" needed for success on the national AP Exam. Successful completion of this course satisfies the US History graduation requirement in Social Studies.			
<b>U.S. Government</b> (RAI, NCAA) Level 5 – 3429 (S2)	Required	Credits: 5	Grade: 12 PreReq: None
U.S. Government is a reading and discussion course for all seniors. It is designed to provide a practical knowledge of our government, enabling the student to function as an informed citizen. Units studied include: The Constitution, Civil Rights and Liberties, Presidency, Legislative Branch, Law and the Courts, and State and Local Government.			
<b>AP U.S. Government</b> (RAI, NCAA, SLU) AP/Dual – 3471 (S2)	Elective	Credits: 5	Grade: 12 PreReq: None

AP Government will give students the ability to analyze and provide perspective on government and politics in the United States. Topics covered include the Constitutional underpinnings of the U.S government, political beliefs and behaviors, political parties, interest groups and mass media, institutions of national government, public policy, civil rights and civil liberties. Students will have the option of taking the Advanced Placement test in May to obtain college credit. Successful completion of this course satisfies the government graduation requirement in Social Studies.

<b>Applied Economics</b> (RAI, NCAA)	Required	Credits: 5	Grade: 12
Level 7 – 3570 (S1)			PreReq: None

Applied Economics helps prepare students for everyday life as a consumer, citizen and employer/employee and for college economics. It provides an understanding of economic concepts and relates them to the real world. Topics covered include: Practical Economics (filing state and federal tax returns, understanding the stock market, renting an apartment, car and life insurance, budgeting, wise use of credit, etc.); The National Economy (economic health of the U. S., national debt, role of the Federal Reserve Banks, the government's taxing and spending policies); Markets, Prices and Business Competition; Financing a Business; The World of Work; International Economics and Trade. A business consultant from the community meets weekly with students to connect the course to the real economic world. Students may run a computer simulated business competition.

<b>Psychology I</b> (RAI, NCAA)	Elective	Credits: 5	Grade: 11, 12
Level 7 – 3670 (S1)			PreReq: None

This course serves as an introduction to basic psychological concepts. Topics such as the history of psychology and its various perspectives, development from birth to death, how the mind works related to learning and emotions and motivation are explored. The class relies heavily on discussion and topics are often applied to current events.

<b>Psychology II</b> (RAI, NCAA)	Elective	Credits: 5	Grade: 11, 12
Level 7 – 3771 (S2)			PreReq: Psych I recommended

The topics discussed in Psychology I are expanded upon in Psychology II. Students will explore levels of consciousness, personality and social behavior, abnormal behavior and how to achieve and maintain mental health. Upon completion of the course the student will have a basic knowledge of the most common psychological concepts.

<b>Law I</b> (RAI, NCAA)	Elective	Credits: 5	Grade: 11, 12
Level 7 – 3870 (S1)			PreReq: None

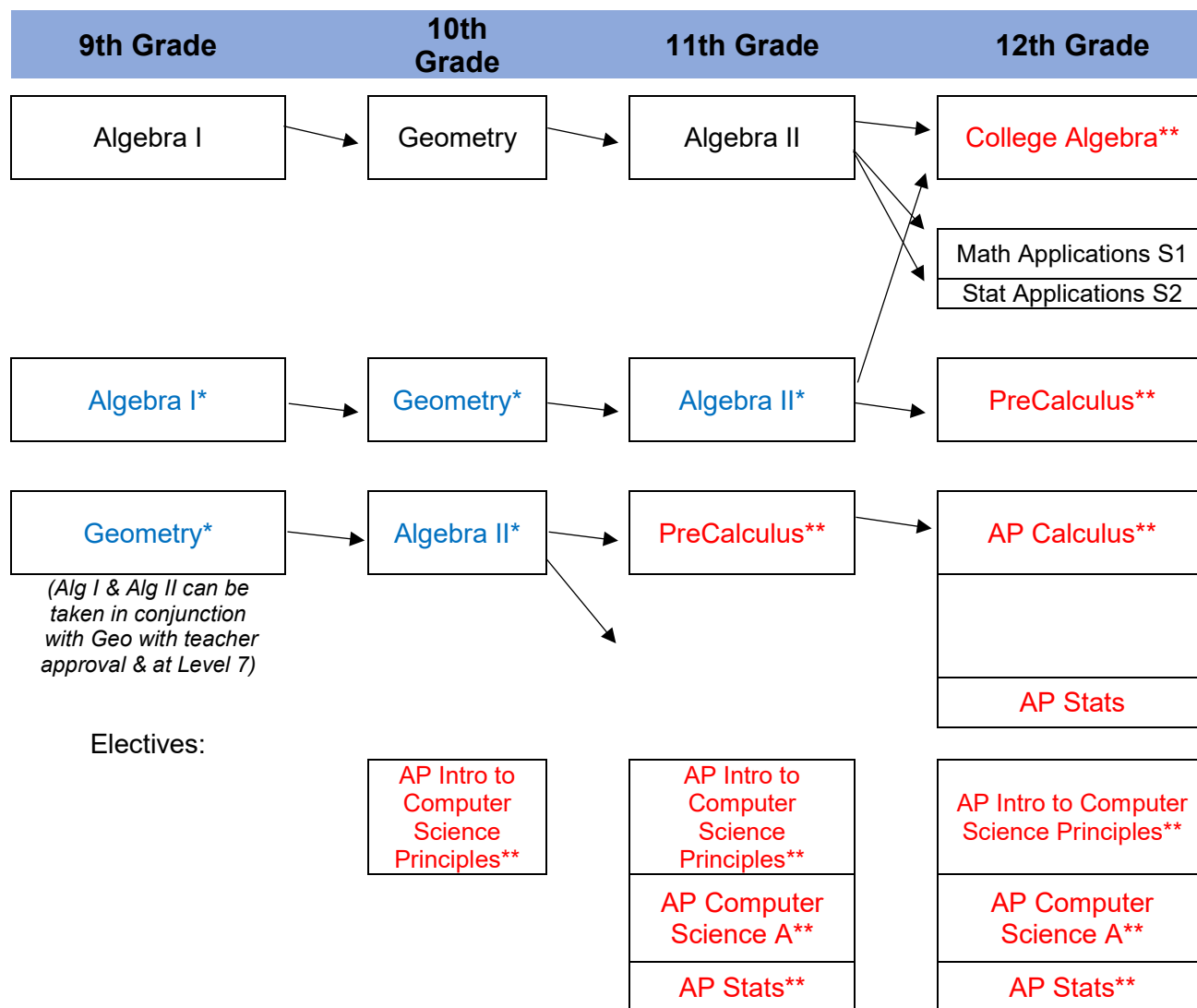
Law I will stimulate student's interest in criminal law, criminal procedure and criminal justice. Students will understand what happens to criminals from the investigation period up to trial. Students will learn the basic roles of participants in the courtroom. Criminal law areas studied include crimes against the person such as murder, assault, rape, etc. and crimes against property such as arson, theft, burglary, etc. Units on criminal procedure and criminal justice will help students understand how current situations faced by police and criminals impact student's lives today.

<b>Law II</b> (RAI, NCAA)	Elective	Credits: 5	Grade: 11, 12
Level 7 – 3971 (S2)			PreReq: Law I recommended

Law II will help students understand more of what happens in civil areas of the law. Topics to study include torts (private lawsuits), contracts, and sports law. This course will help prepare students for a career in business or the legal profession.

# Mathematics Courses

Mathematics plays an important part in the general education of the whole student. Since we recognize that all students are rational beings, their God-given reasoning powers should be developed. The primary focus of the mathematics curriculum, in coordination with the NCTM (National Council of Teachers of Mathematics) standards, is to help students use their reasoning powers to become problem solvers. To accomplish this, problem solving will include the gathering and processing of information, thinking analytically, using technology, coping with changes, and making decisions by using mathematics in varying degrees. Students need to be actively involved in the learning of mathematics. The three Iowa Universities require a year each of Algebra I, Geometry, and Algebra II. A calculator, appropriate to each class, is required.



Legend: Black=Level 5,  
Blue=Level 7, Red=AP  
or College Level Course

<b>Supplemental Math</b> Level 5 – 4126/27 (Yearlong)	Elective	Credits: 10	Grade: 9,10 PreReq: Teacher recommendation
<p>This course is taken concurrently as a supplement to a level 5 math course. The goal of the course is to provide additional needed support. It provides problem solving techniques and tips as well as preliminary review. The course provides further instruction for student who need reinforcement and clarification. Class time is used for additional instruction over concepts, time to work on assignments, and time to make-up and retake assessments. Approval from the instructor is required. <i>*This course is pass/fail. Please pass/fail section for further details on grading.</i></p>			
<b>Algebra I (RAI, NCAA)</b> Level 5 – 4150-51 (Yearlong) Level 7 – 4170-71 (Yearlong)	Elective	Credits: 10	Grade: 9,10 PreReq: None
<p>The student is offered a program based on the skills and concepts of a first year of algebra. These courses include units in evaluating expressions, polynomials, problem solving, factoring, graphing, open sentences in two variables, systems of open sentences in two variables, rational and irrational numbers, functions, inequalities and quadratic equations. (Placement is determined by using Iowa Assessment scores, end of the year test results, and teacher recommendations.) A scientific calculator is required. <i>(If interested, a student can apply to take Alg I &amp; Geometry in the same year.)</i></p>			
<b>Geometry (RAI, NCAA)</b> Level 5 – 4250-51 (Yearlong) Level 7 – 4270-71 (Yearlong)	Elective	Credits: 10	Grade: 9-11 PreReq: below
<p>The elements of a system including undefined terms, defined terms, postulates, and theorems are integrated into a consistent set of relationships. Higher-level thinking skills are developed in this course. Topics include transformations, parallel and perpendicular lines, proofs, similarity and congruence, trigonometry, circles, quadrilaterals, volume of three dimensional figures, constructions, and graph theory.</p> <p>Prerequisite: Level 5: The student must successfully complete Algebra I Level 5 Level 7: The student must successfully complete Algebra I Level 7 or have a teacher recommendation (if changing levels). <i>(If interested, a student can apply to take Geometry &amp; Alg. II in the same year.)</i></p>			
<b>Algebra II (RAI, NCAA)</b> Level 5 – 4350-51 (Yearlong) Level 7 – 4370-71 (Yearlong)	Elective	Credits: 10	Grade: 10,11,12 PreReq: below
<p>This course builds on a first year algebra course. Topics include analysis, transformation and application of functions including linear, quadratic, polynomial, exponential, and rational functions. Students use graphing technology and extend symbolic algebraic understanding to include operations with polynomial and exponential expressions. Level 7 includes logarithmic functions and expressions, conic relationships, as well as sequences and series.</p> <p>Prerequisite: Level 5: The student must successfully complete Algebra I and Geometry to enroll. Level 7: The student must successfully complete Algebra I Level 7 and Geometry Level 7, have a teacher recommendation (if changing levels) or be enrolled in Geometry Level 7.</p>			
<b>Math Applications</b> Level 5 – 4314 (S1)	Elective	Credits: 5	Grade: 11,12 PreReq: below

The emphasis of this course is on basic application, including the use of tables and charts. Sample units encompass checkbook balancing, completion of tax forms, housing and installment buying, transportation costs, wages, checking, savings, and charge accounts, loans, budgets, housing costs, insurance, medical expenses, social security, expenses in maintaining a home, retirement plans, and penalties for early withdrawal. Prerequisite: Teacher approval.

<b>Stat Applications</b> (RAI) Level 5 – 4315 (S2)	Elective	Credits: 5	Grade: 11,12 PreReq: Teacher Appr
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Statistics is the branch of mathematics concerned with collecting, organizing and summarizing numerical facts (data) and for making predictions based on these facts. Statistical analysis and topics in probability will be addressed. This course will run opposite of Math Applications.

<b>College Algebra</b> (RAI, NCAA, SLU) Dual – 4434/35 (Yearlong)	Elective	Credits: 10	Grade: 11,12 PreReq: Alg II
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College Algebra will begin with a review of geometry and then continue with the study of algebra. We will cover algebraic expressions and equations, both linear and quadratic, their manipulation and use in problem solving. We will look at word problems, polynomial, fractional all while introducing and exploring in depth the concept of a function, inequalities, absolute value, graphing and lines. The main goal of this course is to lay a solid foundation for you in algebra, and to instill a sense of confidence in analytic courses in general. This course is intended for students that have completed Algebra II but need more preparation before taking Pre-Calc or AP Stats.

<b>AP Statistics</b> (RAI, NCAA, SLU) AP/Dual – 4444/45 (Yearlong)	Elective	Credits: 10	Grade: 12 PreReq: below
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AP Statistics is designed to match an introductory university statistics course. It is recommended for college bound seniors. Topics include exploratory data analysis, planning research studies/conducting surveys, regression, application of probability in predicting patterns, and selecting and using appropriate models to make inferences. Students will also use statistical software to perform statistical techniques. A graphing calculator is preferred (TI 84 or TI 84 are acceptable).

Prerequisite: Seniors with at least a B in Algebra II Level 7, College Algebra or Pre-Calculus.

<b>Pre-Calculus</b> (RAI, NCAA, SLU) Dual – 4470/71 (Yearlong)	Elective	Credits: 10	Grade: 10-12 PreReq: below
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This course prepares students for a calculus course. Topics covered include a study of functions (transformations, compositions, combinations, and inverse functions) including restricted domains. Graphing functions and solving equations included for each type of function – polynomial, exponential, logarithmic, rational, and trigonometric. Additional topics include the unit circle, trig identities, simplifying expressions, conic sections, vectors, and polar coordinates.

Prerequisite: At least a C in Algebra II (Level 7) or at least a B in College Algebra.

<b>AP Computer Science Principles</b> (AP CSP) (RAI, NCAA) AP – 4584/85 (Yearlong) Offered every other year	Elective	Credits: 10	Grade: 10-12 PreReq: Alg I
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Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. Computer Science Principles is designed to prepare students who are new to computer science for the AP CS Principles exam. Students have the option of taking the course as an AP course. The course covers many topics including the Internet, Big Data and Privacy, and Programming and Algorithms. CS Principles focuses on concepts such as how the internet works and the societal impacts of computer science. More than a traditional introduction to programming, it is a rigorous, engaging, and approachable course that explores many of the foundational ideas of computing so all students understand how these concepts are transforming the world we live in. The course works for beginners as well as students with experience in other computer science courses.

**AP Computer Science A (AP CSA)** (RAI, NCAA)

Elective

Credits: 10

Grade: 10-12

AP – 4586/87 (Yearlong)

PreReq: Alg I &

Offered every other year

Geo

AP CSA is a full-year AP course geared towards 11<sup>th</sup> & 12<sup>th</sup> graders who are serious about programming. Java requires a good mathematical background and strong problem-solving skills. The course will prepare students for the Advanced Placement Computer Science exam, level A.

Students will learn to design and implement computer programs that solve problems relevant to today's society, including art, media, and engineering. AP Computer Science A teaches object-oriented programming using the Java language and is meant to be the equivalent of a first semester, college-level course in computer science. It will emphasize problem-solving and algorithm development, and use hands-on experiences and examples so that students can apply programming tools and solve complex problems.

**AP Calculus AB** (RAI, NCAA, SLU)

Elective

Credits: 10

Grade: 12

AP/Dual – 4770/71 (Yearlong)

Pre-Req: below

Calculus is recommended for the accelerated, college bound students. It is a rigorous, college-level course that studies limits, continuity, differentiation and integration. Students will have the option of taking the Advanced Placement exam in May to obtain college credit. The calculus techniques are applied to a variety of other disciplines, particularly physics. A graphing calculator is required (A TI83+ or TI84+ is preferred.).

Prerequisite: At least a B in Pre- Calculus.

**AP Calculus AB (with Physics C)** (RAI, NCAA, SLU-Calc only)

Elective

Credits: 20

Grade: 12

AP/Dual Calc – 4776/77 (Yearlong)

**Students must take both courses.**

PreReq: below

AP Physics – 6592/93 (Yearlong)

**AP Calculus AB** is an introductory college-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions. Students will have the option of taking the Advanced Placement Exam in May, or of taking the course as a dual credit, to obtain college credit.

**AP Physics C:** Mechanics is a one-semester, calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in one of the physical sciences or engineering. Students cultivate their understanding of physics through classroom study and activities as well as hands-on laboratory work as they explore concepts like change, force interactions, fields, and conservation. (*cont.*)



Laboratory Requirement and Lab Notebooks Laboratory experience must be part of the education of AP Physics C students and should be included in all AP Physics courses. Colleges may require students to present their laboratory materials from AP science courses before granting college credit for laboratory, so students are encouraged to retain their laboratory notebooks, reports, and other materials.

## World Language Courses

<b>Spanish I</b> (RAI, NCAA)	Elective	Credits: 10	Grade: 9-12
Level 5 – 5210-11 (Yearlong)			PreReq: None

This course presents the basic material needed to develop reading, writing, listening and conversation skills, with primary emphasis placed on conversation. Each unit is situated in a Hispanic country or region. Activities include paired and group dialogs, grammar practice, cultural readings, listening comprehension, as well as videos and individual writing activities.

<b>Spanish II</b> (RAI, NCAA)	Elective	Credits: 10	Grade: 9-12
Level 5 – 5220-21 (Yearlong)			PreReq: Span I

The skills learned in Spanish I will be further developed in this course through activities similar to those in the first level. Vocabulary and structures will be reinforced primarily through conversations, but also through writing, listening and reading activities. The history, culture and geography of several Latin American countries, as well as, Latin communities in the U.S. will be a part of the course. Prerequisite: Spanish I passed with a "C" grade or higher.

<b>Spanish III</b> (RAI, NCAA)	Elective	Credits: 10	Grade: 10-12
Level 7 – 5230-31 (Yearlong)			PreReq: Span II

A good base knowledge of material learned in Spanish I and II is needed in this third year course. The teaching of practical, conversational vocabulary and more advanced sentence structure is interwoven with the teaching of culture. In-class activities include paired and large group conversations, speeches, the reading of articles and stories, videos. Students are expected to communicate mostly in Spanish. Prerequisite: Spanish II passed with a "C" grade or higher.

<b>Spanish IV</b> (RAI, NCAA)	Elective	Credits: 10	Grade: 11,12
Level 7 – 5240-41 (Yearlong)			PreReq: Span III

This course is a continuation of Spanish III. Writing and conversation skills are refined. Class work and conversation are done almost entirely in Spanish. Emphasis is placed on literature and culture and the formal writing process is introduced. Prerequisite: Spanish III passed with a "C" grade or higher.

<b>AP Spanish</b> (RAI, NCAA)	Elective	Credits: 10	Grade: 12
AP – 5260/61 (Yearlong)			PreReq: Span IV

Students will be exposed to a demanding review of grammatical structures, the process of formal writing, extensive conversational practice, and aural comprehension activities. Students will be taught test-taking techniques that will enable them to perform successfully on the AP Spanish Language Examination and various placement exams offered by individual colleges and universities. Prerequisite: Spanish IV passed with a "B" grade or higher.

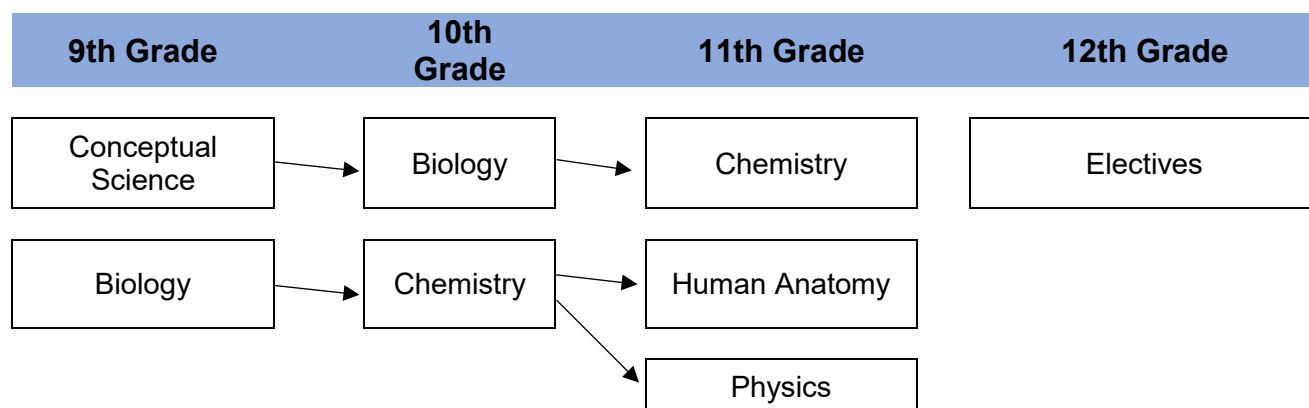
<b>American Sign Language I</b> (RAI)	Elective	Credits: 10	Grade: 10-12
Level 5 – 5532/5535 (Yearlong)			PreReq: None

American Sign Language I prepares students to communicate authentically in American Sign Language by interpreting (reading/viewing), exchanging (signing/reading), and presenting (signing) information on a variety of topics. They introduce the relationship among the practices, perspectives, and cultures of deaf people and communities.

<b>American Sign Language II</b> (RAI)	Elective	Credits: 10	Grade: 10-12
Level 5 - 5536/5537 (Yearlong)			PreReq: ASL I

American Sign Language II builds upon skills developed in American Sign Language I. It prepares students to communicate authentically in American Sign Language by interpreting (reading/viewing), exchanging (signing/reading), and presenting (signing) information on a variety of concrete topics. American Sign Language II introduces the relationship among the practices, perspectives, and cultures of deaf people and communities.

## Science Courses



Legend: All Science courses are Level 5 or 7, along with some AP courses

<b>Conceptual Science</b> (RAI, NCAA)	Required	Credits: 10	Grade: 9
Level 5 – 6154-55 (Yearlong)			PreReq: None
Level 7 – 6176-77 (Yearlong)			

This is an introductory course in Science. It presents the concepts and science practices used in the disciplines of Earth Science and Physics. The course approach is to provide lecture, inquiry activities, and laboratory experiences. This approach is designed to emphasize the mechanics of all science, as well as, the essential concepts and processes of the various science disciplines. This science course will be a prerequisite for all other science courses.

<b>Biology</b> (RAI, NCAA)	Required	Credits: 10	Grade: 9-11
Level 5 – 6250/51 (Yearlong)			PreReq: Conc Sci
Level 7 – 6270/71 (Yearlong)			



This is a discussion, and laboratory-centered course with an emphasis on the understanding of the basic biological processes. The students develop an understanding of a wide variety of living organisms. Areas covered include the cell theory, energy relationships, DNA, genetics, variety of life and classification, plant structure, ecosystems and ecology. Dissection will be offered. Prerequisites: Conceptual Sciences or a placement recommendation for level 7 Biology.

<b>Human Anatomy &amp; Physiology</b> (RAI, NCAA)	Elective	Credits: 10	Grade: 10-12
Level 5 – 6350-51 (Yearlong)			PreReq: Bio
Level 7 – 6370-71 (Yearlong)			

This is a one-year study of the different systems of the human body and their functions. This study also gives insight into the different diseases of the various systems of the body; the prevention of disease and the possible treatment for those diseases. Other topics include epithelial tissues, connective tissue, muscle tissue and nervous tissue. Animal dissection will correlate to much of the human understanding. Prerequisites: Biology for level 5 and 7 and teacher recommendation for level 7.

<b>Chemistry</b> (RAI, NCAA)	Required	Credits: 10	Grade: 10-12
Level 5 – 6450-51 (Yearlong)			PreReq: Conc Sci
Level 7 – 6470-71 (Yearlong)			

A theoretical, experimental and problem-solving approach is used in this course. The foundations of chemistry, formula and equation writing, reaction chemistry, gases, bonding, acid/bases, kinetics, and thermochemistry are primary topics. The student will develop the techniques of using lab equipment properly, running experiments and interpreting data. Level 7 students will be required to prepare formal laboratory reports.

<b>AP Biology</b> (RAI, NCAA, SLU)	Elective	Credits: 10	Grade: 11,12
AP Bio – 6390-91 (Yearlong)			PreReq: Bio & Chem

AP Biology is an in-depth course emphasizing independent reasoning skills. This course meets the requirements of the International Advanced Placement Program. It is taught as a college level class. Students will have the option of either taking the Advanced Placement exam in May or enrolling through Saint Louis University to obtain college credit. Major areas of study are biochemistry, cellular biology, energetics, cell division and communication, transmission genetics, molecular genetics, evolution, and ecology.

<b>AP Chemistry</b> (RAI, NCAA)	Elective	Credits: 10	Grade: 11,12
AP – 6490/91 (Yearlong)			PreReq: Chem Lv 7

AP Chemistry is an in-depth course emphasizing independent reasoning skills. This course meets the requirements of the International Advanced Placement Program. It is taught as a college level class. Students will have the option of taking the AP exam in May to possibly obtain college credit. Major areas of study are atomic theory, gases, acid-base reactions, oxidation-reduction reactions, stoichiometry, equilibrium, kinetics and thermodynamics.

<b>Astronomy</b> (RAI, NCAA)	Elective	Credits: 10	Grade: 10-12
Level 5 – 6544/45 (Yearlong)			PreReq: Alg I

This course gives students the opportunity to learn about the motion, forces, nature of light, telescopes and other instruments used in astronomy, planets, solar systems, stars, galaxies, and cosmology through lectures, simulations, and projects. Algebra-level math will be used to solve problems in this course.

<b>Physics</b> (RAI, NCAA) Level 5 – 6550/51 (Yearlong)	Elective	Credits: 10	Grade: 11,12 PreReq: Bio, Chem, Alg II
<p>This course gives students the opportunity to learn about the motion, forces, nature of light, telescopes and other instruments used in astronomy, planets, solar systems, stars, galaxies, and cosmology through lectures, simulations, and projects. Algebra-level math will be used to solve problems in this course.</p> <p>Physics is designed to provide a conceptual framework of contemporary physics, showing how physical knowledge is acquired experimentally and woven into theoretical models, and how those models, in turn, explain the processes of the natural world. Graphical and mathematical analysis are a necessary part of this course. The content of the course will be learned by performing experiments, making claims, identifying the evidence for those claims, defending those claims, and then comparing your claims to experts. Engineering challenges are a part of this course so that students can apply the scientific principles to relevant needs of society. Major topics include motion, forces, energy, light, sound, electricity and magnetism. Prerequisite: Biology, Chemistry, Algebra II (may be taken concurrently) and teacher recommendation.</p>			
<b>AP Physics 1</b> (RAI, NCAA) AP – 6590/91 (Yearlong)	Elective	Credits: 10	Grade: 11,12 PreReq: PreCalc
<p>AP Physics 1 is an algebra-based, introductory college-level physics course. This course meets the requirements of the International Advanced Placement Program. It is taught as a college level class. Students will have the option of taking the AP exam in May to possibly obtain college credit. Students cultivate their understanding of Physics through inquiry-based investigations as they explore topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. Prerequisite: PreCalculus (may be taken concurrently).</p>			
<b>AP Physics C (with AP Calculus AB)</b> (RAI, NCAA, SLU) AP Physics – 6592/93 (Yearlong) AP Calc – 4770/71 (Yearlong)	Elective  <b>Must take both courses.</b>	Credits: 20	Grade: 12  PreReq: below
<p><b>AP Calculus AB</b> is an introductory college-level calculus course. Students cultivate their understanding of differential and integral calculus through engaging with real-world problems represented graphically, numerically, analytically, and verbally and using definitions and theorems to build arguments and justify conclusions as they explore concepts like change, limits, and the analysis of functions. Students will have the option of taking the Advanced Placement Exam in May, or of taking the course as a dual credit, to obtain college credit.</p> <p><b>AP Physics C:</b> Mechanics is a one-semester, calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in one of the physical sciences or engineering. Students cultivate their understanding of physics through classroom study and activities as well as hands-on laboratory work as they explore concepts like change, force interactions, fields, and conservation.</p> <p>Laboratory Requirement and Lab Notebooks Laboratory experience must be part of the education of AP Physics C students and should be included in all AP Physics courses. Colleges may require students to present their laboratory materials from AP science courses</p>			

# Business Courses

## Intro to Business

Elective

Credits: 5

Grade: 9-12

Level 5 – 7140/41 (S1orS2)

PreReq: None

Course Description: This course will give students an overview of the study of business. It will allow students to see and briefly experience all aspects, including Business Ownership and Entrepreneurship, Management and Organization, Human Resources, Marketing, Finance and Accounting. This is a survey course providing a sampling of other in-depth courses offered at Xavier High School.

## Computer Business Applications

Elective

Credits: 5

Grade: 9-12

Level 7 – 7256/61 (S1orS2)

PreReq: None

Students will work toward certification in Microsoft Word, Excel, and PowerPoint as Xavier is a Microsoft Imagine Academy and a Certiport Testing Center. Using Microsoft Word, students will develop skills in formatting documents such as letters, memos, reports and tables. Many of the advanced features of Word will be incorporated. The students will also develop a working knowledge of Microsoft Excel while building spreadsheets using functions, formulas and charts to enhance them. Learn amazing presentation tricks with Microsoft PowerPoint. These skills will make it easy to impress your teachers with your advanced knowledge of presentation management! It is beneficial to be proficient in keyboarding skills for this course. This is a course that requires solid time management, as students will work through learning modules with teacher support. Opportunity to pursue further learning and certification in Access, leading to MOS certification possible for motivated & interested students.

## Accounting I

Elective

Credits: 10

Grade: 10-12

Level 7 – 7416/17 (Yearlong)

Pre-Req: None

The fundamentals of personal and business record keeping are taught through the study and application of double entry bookkeeping. The study of bookkeeping provides definite and specific opportunities for everyone, regardless of their future occupational goal, to learn the language and the problems of business and how to read intelligently the reports about business and economic conditions. The course also serves the educational need of helping the student discover whether they have an interest in, and an aptitude for accounting as a profession.

## Accounting II

Elective

Credits: 10

Grade: 11,12

Level 7 – 7418/19

PreReq: Acct I

Accounting II is a continuation of the concepts learned in Accounting I. Students will dig deeper into the aspects of Financial Accounting and explore the concepts of Managerial Accounting. Content will vary based upon the knowledge base of students enrolled and may include review of Accounting I concepts, accounting information systems, time value of money, and accounting for different types of businesses, sales and receivables, fixed assets, debt, equity, statement of cash flows, financial ratios, cost-volume profit analysis and variance analysis. This course will use case studies and require college level reading.

## Marketing

Elective

Credits: 5

Grade: 10,11,12

Level 7 – 7426/27 (S1orS2)

PreReq: None

This course is a general introduction to marketing with an emphasis on how it affects the entire process of planning and executing the conception, pricing, promotion, and distribution of a product or service while maintaining customer satisfaction and meeting organizational goals. The course is designed for students interested in business or those who plan on majoring in Business in college. To understand and apply the information learned in this class, outside reading will be expected, as well as the use of class discussion, case studies, simulation software, the internet, guest speakers, and videos.

<b>Intercultural Communications</b>	Elective	Credits: 5	Grade: 10-12
Level 5 – 7330 (S2)			Pre-Req: None

In this class we'll explore globalization in its many forms and analyze how society influences beliefs, values and identity within and between cultural environments. We will examine cultural stereotypes, perceptions and language barriers and the role they play specifically in global marketing and international business relationships. We will analyze cultural intelligence: do you use your left hand?, point your chopsticks?, cross your legs?, eat pork?, speak during a meal? Additionally, we will seek to understand the differences between assimilation, adaptation and accommodation in regard to our own cultural baggage and how this Butterfly Effect is shaping future business leaders.

<b>Entrepreneurship &amp; Innovation</b>	Elective	Credits: 5	Grade: 11,12
(UI) (RAI, NCAA)			
Dual – 7429 (S2)			PreReq: Marketing recommended

This course is designed to promote innovation and entrepreneurship and promote a very hands-on type of approach. The students will be introduced to the concepts and processes related to becoming a successful entrepreneur. Students will be utilizing the BizInnovator curriculum developed by the Jacobson Institute for Youth Entrepreneurship (University of Iowa). The units of study will include: Overview of Entrepreneurship, Innovation and Creativity, Opportunity Recognition Business Planning, Market Research and Marketing, Entrepreneurial Finance, and Monitoring Strategy. Prerequisite—Marketing is strongly recommended. In addition, students that have already been running their own business would also be strong candidates for this course. Students will earn five Xavier High School credits plus have a one-time opportunity to take an exam from the University of Iowa to receive three U of I college credits. **There is an additional cost that is be payable upon successful completion of the U of I exam.**

<b>Personal Financial Management</b>	Elective	Credits: 5	Grade: 12
Dual – 7531 (S2) (RAI, NCAA)(MMU)			Pre-Req: Econ

This course examines basic financial skills each of us must develop over our lifetime. Personal financial statements, calculating net worth, cash management tools, wise use of credit, and managing credit card debt. Also included is an overview of the federal tax system, tips to minimize the "tax bite", tax-deferred savings plans (IRA's and 401K's) and personal investing strategies for stocks, bonds, and mutual funds. In addition, topics will include the benefits of home ownership (tax savings and appreciation), use of escrow accounts, the benefits of mortgage and home equity debt. This course also explores a variety of insurance products available (term life, permanent life, auto, medical), social security and retirement benefits, the basic provisions of a will, the use of trusts, and how to minimize gift/estate/inheritance taxes. **Additional fee for dual credit**

## Saints Shop

Level 7 – 7276/77 (S1orS2)

Elective

Credits: 5

Grade: 11,12

PreReq: Minimum of 2 courses in business, Recommended: Marketing and/or Entrepreneurship, CBA

*Considerations: This class has a work component built-in and may require students to work outside of normal instructional time.*

Students will be involved in the continued development and on-going operations of the Saints Shop. In conjunction with the instructor and parent volunteers, students will have the opportunity to learn customer service and selling skills in the classroom and develop & hone them while working in the store. In addition, students will spend time on developing the Saints Shop product mix, price the products accordingly, and promote them using social media, email marketing, and website design. Activities may include (but are not limited to): research and development, market & product planning promotion, pricing, merchandising, selling, management, distribution, and financial analysis. Skills needed to be successful include: creative and logical thinking, timeliness, dependability, willingness to work as a team, effective communication, attention to detail, ethical behavior, and professional and mature demeanor when working with customers, advisors, and individuals in positions of authority. **This course can be taken more than once with teacher approval.**

## Fine Arts Courses

### VOCAL MUSIC

#### Xavier Chorale

Level 5 - 8120/21 (Yearlong)

Elective

Credits: 10

Grade: 9-12

PreReq: None

Xavier Chorale provides the student with an opportunity to rehearse and perform a wide variety of SATB literature. Performances range from choral concerts to state contests. Emphasis will be placed on enhancing prior knowledge of proper vocal technique, music literacy skills, musicality and ensembleship.

#### Bel Canto

Level 5 – 8136/37 (Yearlong)

Elective

Credits: 10

Grade: 9-12

Pre-Req: None

This ensemble provides the student with an opportunity to rehearse and perform a wide variety of SSAA literature. Performances range from choral concerts to state contests. Emphasis will be placed on vocal technique, reading skills, musicality and ensembleship.

#### VOCE

Level 5 – 8150/51 (Yearlong)

Elective

Credits: 10

Grade: 9-12

PreReq: None

Voce is an auditioned curricular ensemble. Auditions are held in the spring semester and students are selected based on tone quality, musicianship, sight-reading ability, attitude, work ethic, etc. This ensemble is the premier choral ensemble at Xavier. They perform a wide variety of four- to eight-part a cappella and accompanied literature. Individual vocal development and ensemble musicianship are required. Performances range from school concerts, state contests, mass, and other community events. This ensemble occasionally performs outside the school day so after school availability is required. Individual vocal development and ensemble musicianship are required.

## INSTRUMENTAL MUSIC

### Marching Band/Pep Band/Concert Band

Elective

Credits: 10

Grade: 9-12

Level 5 - 8210/11 (Yearlong)

PreReq: None

*\*There is an additional materials fee for this course. Payment will be made online after course registration.*

**Instrumental Music** (Band) is a two-semester class for students who play woodwind, brass or percussion instruments. All students registered for band are required to participate in all three large conducted ensembles (Concert Band, Marching Band and Pep Band), Solo and Ensemble Contest and take one twenty-minute private lesson per scheduled due date with the band director. Those who study with a private instructor are required to turn in documentation each quarter.

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**Marching Band** goes from the beginning of the school year until mid-October. Band members perform pre-game and halftime shows at home varsity football games and they participate in 5-6 area marching band festivals, including the IHSMA State Marching Band Festival and the Metro Marching Band Classic. In order for the band to progress musically and technically throughout the course of the marching season, students are required to attend a marching band camp held prior to the start of the year. Those in the drumline and color guard have extra camps during the summer. Once the school year begins we will have morning rehearsals prior to school in large-group and sectional formats. (It is possible to do both marching band and early bird fitness/wellness - they do not conflict).

**Concert Band** is a core group from which all other ensembles within the department originate. This group will learn music fundamentals through performance of a variety of concert band literature. Students will also learn how to evaluate their performance throughout all phases of preparation based on specific criteria. Concert band meets from late October until the end of the school year. The concert band performs at least four concerts per year and participates in the IHSMA State Large Group Festival each spring.

**Solos and Small Ensembles** provide students the opportunity to advance their individual music skills which in turn, will help the success of the overall group. Students are required to prepare a solo and/or ensemble. There is no limit to the amount of entries a student may have, provided they are not like entries. Students will perform at the in-house solo/ensemble festival and have the option to perform at IHSMA State Solo and Small Ensemble Festival.

**Jazz Band** is an extracurricular component of the program open to students enrolled in concert band. Auditions take place in September and regularly scheduled rehearsals are held in the mornings (for Jazz Band One) and on Thursday evenings (for Jazz Band Two) until the end of April. These groups perform at concerts throughout the year and compete in jazz festivals/competitions in the spring semester.

**Pep Band** provides students the opportunity to show their school spirit at boys and girls varsity basketball games. There are typically 3-5 required pep bands during the basketball season.

**Optional Opportunities:** Members of the Xavier band program who show interest and the desire for more performance experiences and opportunities are regularly nominated for and/or audition for the Iowa All-State Band and Orchestra, area honor bands, and other area events/opportunities.

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### Music Theory I

Elective

Credits: 5

Grade: 11,12

Level 7 - 8240/41 (Yearlong)

PreReq: below



This course is an introduction to the vertical and linear dimensions of tonal music. After a review of musical fundamentals in which students will be expected to demonstrate facility and speed in naming and spelling basic tonal materials, the course will introduce traditional contrapuntal exercises, basic diatonic harmony, and the construction of formal phrase units. A major concern of this course is the relationship between harmonic, contrapuntal, and formal prototypes and actual pieces of music from the 15<sup>th</sup>– 20<sup>th</sup> Centuries. 21<sup>st</sup> Century music may be explored as needed or as time allows.

**Enrollment Requirements:** This course is in the format of an independent study. Students must be currently enrolled in a performance-based music course as a prerequisite. Purchase of text materials may be required. Students desiring to complete the course shall enroll for the year. Check with the Music Department for more information.

### Music Theory II

Level 7 - 8242/51 (Yearlong)

Elective

Credits: 5

Grade: 11,12

PreReq: below

This course is a continuation of study in the vertical and linear dimensions of music. After a review of the previous year's concepts, students will be expected to demonstrate facility in compositional forms, techniques and harmonic structure. 21<sup>st</sup> century harmonies begin to be studied and utilized in compositions. Students will analyze wide-ranging compositions throughout history.

**Enrollment Requirements:** This course is in the format of an independent study. Students must currently be enrolled in a performance-based course as a prerequisite and have completed in good standing, Music Theory I & II. Purchase of text materials may be required. Students desiring to complete the course shall enroll for the entire year. Check with the Music Department for more information.

## ART COURSES

Art is another language. Learning to speak it fluently improves your ability to be more creative, sharpening your problem-solving skills and preparing you for whatever your calling may be. Start with Art Explorations to discover the vocabulary of this language and learn about the many pathways offered here at Xavier. Once you know how to speak Art, you will be asked what you want to say. Having learned to communicate with the visual tools you are given, higher level courses will give you advanced techniques and skills to help you more clearly articulate your vision, your passion, and yourself. Follow your favorite media all the way to AP art, a college level course with college credit that opens the door to one of the fastest growing job markets. *\*There is an additional materials fee for all art courses. Payment will be made online after course registration.*

### Art Explorations

Level 5 - 8312/8323 (S1orS2)

Elective

Credits: 5

Grade: 9-12

PreReq: None

This is a one semester introductory studio and art appreciation course. Art Explorations provides exposure to a variety of art concepts and materials, both contemporary and traditional preparing you for all of the other art classes offered at Xavier. Projects include 2-dimensional and 3-dimensional art. It is a recommended course for any student planning to take advanced art courses. Limited to 20 students per section.

**Digital Photography I**

Elective

Credits: 5

Grade: 9-12

Level 7 – 8354/55 (S1)

PreReq: None

Get the most out of your camera by learning to take pictures of a wide variety of subjects using advanced functions and techniques to create images that create and capture your world in a new way. You will learn how to use Adobe Photoshop to enhance your photos and create art work using the latest technology. We have cameras and equipment that students can check out from the school. A memory card of at least 8 GB is required. *A materials fee is required.* No prerequisite.

**Digital Photography II**

Elective

Credits: 5

Grade: 9-12

Level 7 – 8365 (S2)

PreReq: Dig Photo I

Continue to develop your creative eye while exploring options for a career in photography. You will gain experience with photojournalism, portrait, commercial/industrial, and fine art photography. It is recommended that students have their own digital camera and camera manual available to bring to class. We have a limited number of cameras that students can check out from the school. A memory card of at least 8 GB is required. Students will print digital images at their own expense for some assignments. *A materials fee is required.* Prerequisite: Pass Digital Photography I with a “C+” or better. Limited to 16 students.

**Painting I**

Elective

Credits: 5

Grade: 9-12

Level 5 – 8410/11 (S1orS2)

PreReq: None

(Every other year opp. Drawing)

Gain a foundation in painting with a variety of media and techniques that will help you find your artistic style. Special attention will be given to watercolor and acrylic painting. *A materials fee is required.*

**Graphic Design I**

Elective

Credits: 5

Grade: 9-12

Level 7 – 8530 (S1)

PreReq: None

Open the world of digital media design creating a variety of projects using the Adobe Creative Cloud and other more traditional media to push your designs to the max! Use the elements and principles of design to make your designs more vibrant and alive using both digital and traditional media with an emphasis on your personal expression. A materials fee is required.

**Graphic Design II**

Elective

Credits: 5

Grade: 9-12

Level 7 – 8529 (S2)

PreReq: Graphic Design I

Following Graphic Design, students will follow their own path in a series of creative projects to grow their digital skills, add new techniques and deepen their design knowledge to help them to create unique, personal works of art using the most current design programs in Adobe Creative Suite. Employment opportunities abound for the growing field in graphic design and this course will prepare students for a whole world of opportunity.

**Drawing I**

Elective

Credits: 5

Grade: 9-12

Level 5 – 8610/8621 (S1orS2)

PreReq: None

(Every other year opp. Painting)

Explore a variety of drawing media such as pencil, pen, charcoal, ink and other material. Projects include contour drawing, negative space drawing, and techniques to draw realistically. The course will also focus on drawing the measurements of the human face from the profile and the front view. A materials fee is required. No prerequisite. Limited to 20 students.



**Drawing II**

Level 7 – 8641 (S2)

Elective

Credits: 5

Grade: 9-12

PreReq: Draw I

Continue to build on drawing techniques and media learned in Drawing I while adding the use of different media such as pastel and colored pencil. The course will concentrate on figure drawing, form, lighting in a drawing, mixed media work and still life arrangements. This course will focus on the development of a personal and unique style for each student. *A materials fee is required.*  
Prerequisite: Drawing I with a “C+” or better.

**Ceramics I**

Level 5 – 8710/8721 (S1orS2)

Elective

Credits: 5

Grade: 9-12

PreReq: None

Experiment with wheel thrown, hand building and sculpture techniques. Ceramics I will prepare students to make bigger and more complex work as they progress through our other ceramic's courses. *A materials fee is required.*

**Ceramics II**

Level 5 – 8730/8741 (S1orS2)

Elective

Credits: 5

Grade: 9-12

PreReq: Cer I

Add higher level techniques and challenges to your ceramic work. Students will create more complex pieces adding new techniques and skills to create larger and more detailed works in clay. *A materials fee is required.* Prerequisite: Ceramics I with a “C+” or better.

**Independent Art Study**

Level 7 -8810/8821 (S1orS2)

Elective

Credits: 5

Grade:11-12

PreReq: Teacher Appr.

Pursue a particular media in your own voice. Students must prepare a written contract stating their goals and a general course of study to be discussed with the teacher to be considered for this class. Students will meet individually with the instructor at least once a week to track progress. Prerequisites: “B+” or better in previous art classes and have taken all available classes in at least one media to be considered for an independent study. **Students must have permission from the instructor & administrative approval of curriculum to enroll in this course.** A \$30 materials fee required.

**AP Studio Art**

AP – Drawing 8870/71 (Yearlong)

AP – 2D Design 8872/73 (Yearlong)

AP – 3D Design 8874/75 (Yearlong)

Elective

Credits: 5

Grade:11-12

PreReq:See Below

AP Art is a college level class that comes with college credit and requires focus and time management to produce high quality, finished pieces worthy of one of the two different sections of your AP portfolio. Previous work may be considered for the portfolio, but may not qualify. Students must attend a meeting before the summer to learn about what the requirements will be and what they need to do over the summer to be sure they are meeting the requirements for the class since it is such a large amount of work that must be done at the beginning of May. Mediums that can be used: Drawing, Painting, Photography, 2D or 3D Media) Prerequisite: Drawing I, Painting I, (Painting II, and/or Drawing II are also highly recommended) and consent of the instructor.

**DRAMA & FILM****Film Studies: Elements**

Level 5 – 8934 (S1)

Elective

Credits: 5

Grade: 9-12

PreReq: None

Film Studies I is a semester-long study of filmmaking techniques and the history of cinema. Students will view classic and contemporary films in order to examine the progress in filmmaking in units such as sound, color, music, cinematography, animation, visual effects, screenwriting and directing. Furthermore, emphasis will be placed on exposing students to a wide variety of styles of filmmaking. By viewing, studying, discussing, and writing about film, students develop and demonstrate skills in media literacy as well as analysis and critical thinking.

**Film Studies: Genres**

Elective

Credits: 5

Grade: 9-12

Level 5 – 8935 (S2)

PreReq: None

Film Studies II is a semester-long study of genres of film. Students will view classic and contemporary films and analyze thematic and stylistic characteristics of genres such as coming-of-age, action, science fiction, fantasy, documentary, and film noir. Students will critically interpret directional style and narrative choice, as well as examine the historical development and cultural impact of films. They will analyze a range of cinematic styles, conventions, and trends in order to understand the larger themes and messages portrayed in each film. By viewing, studying, discussing, and writing about film, students develop and demonstrate skills in media literacy as well as analysis and critical thinking.

**Theater I**

Elective

Credits: 5

Grade: 9-12

Level 5 – 8940 (S1)

PreReq: None

This one-semester overview of theatre, designed for both the student new to theatre and the student with a general background in the theatre, is offered first semester. This class will cover all aspects of theater: acting, technical theater, and exposure to classic plays. Students will read written plays and improvise scenes without a script. Students will work on current shows and events in production during the semester in which they are enrolled. Group and individual work will be used to develop skills in physical acting, scene study, stage movement, improvisation, theater safety, basic set design, set painting techniques, as well as some experience with make-up, costuming, and props. Throughout the semester, students will watch a play and will present prepared performances, assist in creating the set for a production, and participate in a wide range of activities designed to improve collaboration and public speaking. Meets fine arts requirement.

**Theater II**

Elective

Credits: 5

Grade: 9-12

Level 5 – 8947 (S2)

PreReq: None

This one semester theatre course offered second semester gives students an in-depth, progressive study of the theatre with individual and group performance assignments. This class will cover all aspects of theater: acting, technical theater, and exposure to modern plays. Students will increase their knowledge of internal and external acting principles including work on voice and diction, characterization, and improvisation. Group and individual work will be used to develop skills in directing, set design, make-up, costuming, and props. Students will work on current shows and events in production during the semester in which they are enrolled. This course will introduce students to the aspects of audition techniques, a closer look at speaking and performing modern plays, and the differences between dramatic and comedic acting. Students will critique each other's work in a creative and supportive atmosphere. Furthermore, a study of theatrical abstracts from around the world and thorough analysis of plays in their entirety will provide students with a complete survey of theatre at its finest.

# Fitness and Wellness Courses

A minimum of 20 credits is required for graduation (10 if the student is carrying a full academic load). Students have two 2.5 credits options to help meet the graduation requirements. They are:

1. Take both two-week summer courses (that counts for 5 credits of credit). Check with the Fitness/Wellness department for the time and dates of this summer course. There is additional tuition charge for each summer course.
2. Early-Bird class is offered during the school year and must be completed both semesters to satisfy 5 credit credits of Fitness/Wellness.\*

*\*A student may take one two-week summer session and one semester of Early-Bird to earn 5 credits for the year.*

<b>Fitness/Wellness 9</b> Level 5 - 9110/11 (S1orS2)	Elective	Credits: 5	Grade: 9 PreReq: None
During Freshman Physical Education, students will be exposed to a variety of team activities, as well as introduction to the weightroom. As a part of a team, students will develop and understand basic technique and tactics of team sports. Through introduction to the weightroom, students will begin to establish a solid base for a healthy lifestyle that will benefit their bodies, spirits and minds as they grow.			
<b>Health &amp; Wellness I</b> Level 5 - 9118 (S1)	Elective	Credits: 5	Grade: 9-12 PreReq: None
This course is designed to assist students in obtaining accurate information, develop lifelong positive attitudes and behaviors, and making wise decisions related to their personal health. Health 1 will include at a minimum, mental, emotional, and social health; nutrition and physical activity; and stress management. Central themes are the acceptance of personal responsibility for lifelong health and relationships, respect for and promotion of the health of others, and informed use of health-related information, products, and services. <i>This class can be taken only once.</i>			
<b>Health &amp; Wellness II</b> Level 5 - 9119 (S2)	Elective	Credits: 5	Grade: 9-12 PreReq: None
This course will be a continuation of Health 1. Topics to be covered will include, at a minimum, tobacco, alcohol and drugs; empathy, violence and dangerous decisions; diseases; sexual health; and cultural diversity. Central themes will continue to be the acceptance of personal responsibility for lifelong health and relationships, respect for and promotion of the health of others, and informed use of health-related information, products, and services. <i>This class can be taken only once.</i>			
<b>Team Sports 10-12</b> Level 5 – 9252/53 (S1orS2)	Elective	Credits: 5	Grade: 10-12 PreReq: None
While participating in team sports, students will learn rules, practice skills, strengthen fundamentals and build strategies for a variety of team activities. Students will also utilize the fitness center each class where they are expected to take part in strength training and/or cardio in addition to any in-season sport or workouts outside of school.			
<b>Lifetime Sports 10-12</b> Level 5 – 9256/57 (S1orS2)	Elective	Credits: 5	Grade: 10-12 PreReq: None

While participating in Lifetime Fitness, students will learn rules, practice skills and strengthen fundamentals of primarily individual and partner recreational sports. Students will utilize the fitness center on a regular basis to take part in workouts that focus primarily on muscular endurance, cardiovascular endurance and flexibility. Fitness activities will include yoga, pilates, tabata and a variety of other cardio and bodyweight-based strength activities.

<b>Earlybird Fitness/Wellness</b>	Elective	Credits: 5	Grade: 9-12
Level 5 - 9150/51 (S1orS2)			PreReq: None
This Fitness & Wellness course meets before school starts from 6:45-7:30 am. This course varies on days required for attendance. Classes are held: Tuesday & Thursday during the 1st/3rd quarter and Tuesday, Thursday & Friday during 2nd/4th quarter.			

<b>Summer Fitness/Wellness</b>	Elective	Credits: 2.5	Grade: 9-12
Level 5 – 9160/61			PreReq: None
(2 week session)			
This Fitness & Wellness course meets in the mornings after school is out for the year. This course requires attendance for <u>every day</u> of the 2 week session. Missing even 1 day will not meet credit requirements. The two 2 week sessions will run concurrently are take place in June.			

## Additional Electives

<b>Healthcare Innovator</b> ( <i>U of I</i> )	Elective	Credits: 5	Grade: 10-12
Dual - 9635 (S2)			PreReq: Geo & Bio

Healthcare Innovator® aims to widen the talent pipeline of students prepared for STEM careers and future entrepreneurial pathways -- vital to advancing our nation's economic prosperity. Students will have the opportunity to develop 21st Century Skills as they work on real-world problems in the healthcare industry, engage in collaborative teams, identify and leverage resources, and design viable solutions to meet the needs of a team of healthcare professionals at Unity Point Healthcare. This initiative is built on the research expertise of the University of Iowa, a Tier 1 research institution. Students make data-driven decisions to improve their skill set and move their projects forward. The course features the latest methodologies, such as Design Thinking, Lean Startup and the STEM Innovator® Canvas. Skills assessed include ideation, problem-solving, empathy, collaboration, data-driven decision making, adaptability, communication, and resiliency. Students will create a portfolio of work and experience that can assist them in the college and career application process. *Prerequisite: Geometry (Level 7) and Biology (Level 7). Students must have a valid driver's license or school permit.*

<b>PLTW Intro to Engineering Design</b> ( <i>RAI, KCC</i> )	Elective	Credits: 10	Grade: 10-12
Dual – 9468/69 (Yearlong)			PreReq: Geo

Students dig into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3-D modeling software, and use an engineering notebook to document their work. Introduction to Engineering Design (IED) is a high school level foundation course in the Project Lead the Way (PLTW) Engineering pathway. In IED students are introduced to the engineering profession and a common approach to the solution of engineering problems, an engineering design process. Utilizing the activity-project-problem-based (APB) teaching and learning pedagogy, students will progress from completing structured activities to solving open-ended projects and problems that require them to develop planning, documentation, communication, and other professional skills. *\*There is an additional materials fee for this course. Payment will be made online after course registration. You must apply for 3 semester credits in the College of Engineering*

<b>PLTW Principles of Engineering</b> (RAI, KCC, NCAA)	Elective	Credits: 10	Grade: 11,12
Dual – 9478/79 (Yearlong)			PreReq: Geom

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength 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. Principles of Engineering (POE) is a foundation course of the PLTW high school engineering pathway. This survey course exposes students to some of the major concepts that they will encounter in a postsecondary engineering course of study. Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of materials and structures, automation, and kinematics. The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology. *\*There is an additional materials fee for this course. Payment will be made online after course registration. You must apply for 3 semester credits of credit in the College of Engineering.*

<b>Kirkwood Career Academies</b> (KCC)	Elective	Credits: 5	Grade: 11,12
Dual - Course #s vary (Yearlong)			PreReq: Geo & Bio

Xavier students have an opportunity to explore high demand careers while earning both high school and college credit. Xavier High School has teamed up with Kirkwood Community College and other area high schools to create several career academy programs. When enrolled in the academy of your choice, you will explore new careers, develop new skills and gain insights into today's workplace and high paying career fields. Options included are sequences of career focused, college credit classes that often lead to industry-recognized skills or certification. Students take 2 courses per semester. See your counselor for more information.

**Teacher Associate (TA)\*\***

Elective

Credits: 5

Grade: 11,12

Level 5 - 9474/75 (S1orS2)

PreReq: below

Xavier students have the opportunity to help a teacher with preparing materials for class, taking attendance, supporting the lesson by helping other students, and other tasks assigned by the teacher. This is a great opportunity for students that are interested in the field of education as a profession. Being a teacher associate must be approved by the teacher prior to enrolling in the class. (TA's can be in the following areas: Strategies, Art, Supplemental Math, Strategic Reading, Science Labs, Music) *\*This course is pass/fail. Please pass/fail section for further details on grading.*

**Criteria:**

- Good academic standing (GPA of 3.25 or higher)
- History of good attendance

**Student Internship\*\***

Elective

Credits: 5

Grade: 11-12

Level 5- 9610/11 (S1orS2)

PreReq: below

This internship program is for students interested in the further study of a profession. Students will observe and perform various tasks throughout the semester as laid out in a competencies checklist in order to obtain the full 5 credit credits for the internship. Plans for this internship must be approved by the teacher prior to the semester. (Internships can be in the following areas: Campus Ministry, Athletics, Marketing, Foundation and Nursing) *\*This course is pass/fail. Please pass/fail section for further details on grading.*

**Study Skills - 9**

Elective

Credits: 5

Grade: 9

Level 5 – 9304 (S1)

PreReq: None

Level 5 – 9307 (S2)

Study Skill 9 is designed to develop and strengthen the academic and personal skills necessary for a successful transition into high school. This course is used to help students get organized to prepare for the rigor of Xavier coursework. *\*This course is pass/fail. (See description on the last page)*

**Strategies Course**

Elective

Credits: 5

Grade: 9-12

Level 5 - GST1/GST2 (S1orS2)

PreReq: 504 Plan

Only students with 504 Accommodation Plans are eligible to be enrolled in a Strategies class. Strategies is a quieter learning environment for study, focus, and help with learning study skills, organizational skills, self-advocacy skills, and more. Students may use Strategies time to get help from a tutor that is assigned to their Strategies classroom. They may also use their Strategies time to take assessments, work on homework, and study for upcoming tests/quizzes.

*Students will be graded on a Pass/Fail grading scale*, and are expected to complete tasks assigned to them by their Strategies teacher. This is an attendance-based class. In order to earn course credit, students may not miss more than 10 classes. Students who do not meet expectations may not be eligible to be enrolled in Strategies classes in the future.

**\*\*Students can have up to 1 block per semester to be a Teacher Associate, Internship, or Workplace Learning Internships as a junior or senior.**

## Pass/Fail Course Policy:

In certain courses, a pass/fail is used instead of the standard grading scale. These courses include: Teachers Associate, Internship (internal), Strategic Reading, Strategies, and Supplemental Math. Students will earn a passing grade and 5 credits if the following criteria are met:

**Work:** Students must actively and willingly participate in class requirements

**Attendance:** Students are expected to be in attendance and on time. Students may not miss more than 10 classes for any reason. Extenuating circumstances may be considered on a case by case basis.

## Guidance Courses

Our Guidance curriculum is required for all students in order to meet State-mandated guidance curriculum each year. Topics covered will include: Career interests and assessments, four-year course plans, college prep and planning, and post-secondary plans. Students will engage in this content during Xcel and individually scheduled time.