2020-2021
PROGRAM OF STUDIES

Xavier High School
MISSION STATEMENT AND COMMITMENTS

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

Xavier High School is part of the Tradition and Mission of the Roman Catholic Church and the Archdiocese of Dubuque. As a part of that tradition, we are committed to:

- Proclaiming the Gospel of Jesus in a Catholic, faith-filled environment that motivates each student, staff member, parent and supporter to share in that mission.

- Developing each person's spiritual, social, emotional and physical gifts.

- Building God's Kingdom through service to our community, nurturing family relationships and modeling Christ in our everyday actions.

- Creating an atmosphere of justice and trust through embracing the Gospel in our decisions and actions.

- Fostering stewardship through personal commitment, responsibility and accountability to one another and our world.

- Providing a learning atmosphere where creativity and innovation are honored and celebrated.
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REQUIREMENTS FOR GRADUATION

In order to graduate from Xavier High School, a student must successfully complete work in certain well-defined areas of study. The following hours of credit are REQUIRED of all students for graduation:

- Theology: 40 hrs
- English: 40 hrs
- Social Studies: 30 hrs
- Mathematics: 30 hrs
- Science: 30 hrs
- Fine Arts: 5 hrs
- Fitness and Wellness: 20 hrs
- Guidance: 4 hrs

Minimum hours required: 260 for graduation.

For early graduation, check procedure as outlined in the student handbook.

NOTE: All students are required to have 8 classes. This can include teacher assistants, approved online courses, internships, and Xavier Xtras.

ACT and SAT - American College Test and Scholastic Aptitude Test are college entrance examinations open to all students, but recommended during 2nd semester of junior year. Practice tests are available for students online at www.actstudent.org or http://sat.collegeboard.org/practice/ and in the Guidance office.

<table>
<thead>
<tr>
<th>ACT Test Date</th>
<th>SAT Test Date</th>
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<tbody>
<tr>
<td>September 12, 2020</td>
<td>August 29, 2020</td>
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<tr>
<td>October 24, 2020</td>
<td>October 3, 2020</td>
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<td>December 12, 2020</td>
<td>November 7, 2020</td>
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<td>February 6, 2021</td>
<td>December 5, 2020</td>
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<td>April 17, 2021</td>
<td>March 13, 2021</td>
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<tr>
<td>June 12, 2021</td>
<td>May 8, 2021</td>
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<td>July 17, 2021</td>
<td>June 5, 2021</td>
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GUIDANCE

Guidance classes and individual conferences are a required combination for freshmen, sophomores, juniors and seniors. Basic areas of emphasis include: interpretation of personal data; information about vocations, college, academics, etc.; communication and listening skills; self awareness and awareness of others, goal setting, and development of positive attitudes.

We would like to assist each of you as you plan for your education and vocation. We hope to help with personal decisions by helping you gain a better understanding of yourself in relationship to the Christian and World communities. As questions and problems arise do not hesitate to contact us. We have some required some elective and some optional programs available for all students.

Guidance

9300 Individual Counseling Request Sem I/II 0 hrs
Individual guidance or counseling for a student may be requested by that student, by his or her parent or by a teacher.

9310 Freshman Guidance Required 9 Sem I 1 hr
Freshmen Guidance is combined with the Freshman Xperience class. The purpose of this combination of courses is to acquaint students with guidance services, to assist in adjusting to the Xavier environment, to develop a group unity and identity, to prepare students for making choices and academic decisions and to select courses for sophomore year.

9320 Sophomore Guidance Required 10 Sem II 1 hr
Sophomores are required to attend small group sessions to explore careers. The purpose of Sophomore Guidance is to provide students with the opportunity to explore career options, to become acquainted with the school to work initiative, to maintain contact with guidance services, to reestablish contact with a counselor and to select courses for junior year.

9330 Junior Guidance Required 11 Sem II 1 hr
Juniors are required to attend small group sessions covering college selection, college entrance exams, college entrance requirements, applying to college and course selection for senior year.

9340 Senior Guidance Required 12 Sem I 1 hr
Seniors are required one individual conference. The conference helps students finalize post-high school plans, process additional data needed to make educational and vocational decisions and answer questions and concerns about graduation requirements.

TESTING AND SPECIAL SERVICES

PSAT/NMSQT - Preliminary Scholastic Aptitude Test/National Merit Scholarship Qualifying Test is a test designed to identify students for academic recognition during junior and sophomore year and to give practice for SAT testing. It is open to all sophomore and junior students for practice but juniors only for scholarship recognition. Test date is Wednesday, October 14, 2020. There will be a sophomore version of this test administered during 2nd semester.
THEOLOGY

ALL CATHOLIC STUDENTS are required to take 5 hours of Theology each semester and pass a total of 40 hours in their four years. All students must take and pass the junior courses Life in Jesus Christ and Sacraments. Seniors must take two of the four electives: Social Justice or Why Am I Catholic?, Philosophy of Theology or Comparative Religions.

NON-CATHOLIC STUDENTS are required to take 20 hours of Theology before graduation. Students are required to take Life in Jesus Christ and Sacraments (both junior year). Students may then choose from any of the other courses listed.

1130 Old Testament I Required 9 Sem I 5 hrs
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. United States Conference of Catholic Bishops (USCCB) Curriculum.

1131 Old Testament II Required 9 Sem II 5 hrs
The purpose of this course is to introduce students to the mystery of Jesus Christ, the living Word of God, the Second Person of the Blessed Trinity. In this course students will understand that Jesus Christ is the ultimate Revelation to us from God. In learning about who he is, the students will also learn who he calls them to be. United States Conference of Catholic Bishops (USCCB) Curriculum.

1222 New Testament I Required 10 Sem I 5 hrs
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. United States Conference of Catholic Bishops (USCCB) curriculum.

1223 New Testament II Required 10 Sem II 5 hrs
The purpose of this course is to help the students understand that in and through the Church they encounter the living Jesus Christ. They will be introduced to the fact that the Church was founded by Christ through the Apostles and is sustained by him through the Holy Spirit. The students will come to know that the Church is the living Body of Christ today. This Body has both divine and human elements. In this course, students will learn not so much about events in the life of the Church but about the sacred nature of the Church. United States Conference of Catholic Bishops (USCCB) curriculum.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Type</th>
<th>Semesters</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>1322</td>
<td>Life in Jesus Christ</td>
<td>Required</td>
<td>Sem I</td>
<td>5 hrs</td>
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<td></td>
<td>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.</td>
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<tr>
<td>1375</td>
<td>Sacraments as Privileged Encounters with Jesus Christ</td>
<td>Required</td>
<td>Sem II</td>
<td>5 hrs</td>
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<td>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. United States Conference of Catholic Bishops (USCCB) Curriculum.</td>
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<tr>
<td>1414/1415</td>
<td>Social Justice</td>
<td>Elective</td>
<td>Sem II</td>
<td>5 hrs</td>
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<td>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. United States Conference of Catholic Bishops (USCCB) Curriculum.</td>
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<tr>
<td>1440/1441</td>
<td>Comparative Religions (Dual Credit)</td>
<td>Elective</td>
<td>Sem I/II</td>
<td>5 hrs</td>
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<td>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. United States Conference of Catholic Bishops (USCCB) Curriculum.</td>
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<tr>
<td>1470/1471</td>
<td>Why Am I Catholic?</td>
<td>Elective</td>
<td>Sem I</td>
<td>5 hrs</td>
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<td>This course explores the very identity of our Catholic faith and how to explain it. Issues covered include the development of the Bible; continuity of Catholic teaching (Church Fathers and papal infallibility), an examination of Jesus and His divinity, Mary and the saints, salvation and the afterlife, and the sacraments, with a special focus on Reconciliation and Eucharist. After initial class research and discussion on Bible development, Church teaching, and Jesus, students will be asked to choose one of two options for further instruction. One option is student-led, meaning the student will take an active leadership role in the independent research and teaching of the course. The other option is teacher-guided, meaning the teacher will direct students toward the learning objectives.</td>
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<tr>
<td>1481</td>
<td>Philosophy of Theology (Dual Credit)</td>
<td>Elective</td>
<td>Sem II</td>
<td>5 hrs</td>
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<td>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</td>
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(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.

## ENGLISH

### REQUIREMENTS

All students are required to take 40 hours of work in the field of English before graduation. These hours must include:
1. 10 hours of English I
2. 10 hours of English II
3. 10 hours of English III or AP English Language and Composition
4. 10 hours of senior English electives.

Senior courses include AP English Literature and Composition and English IV.

### 2120-21 Strategic Reading

**Elective 9, 10**

10 hrs

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. It is a full-year course for 3-level students and a one-semester course for 5-level students. Approval of the instructor is required.

### 2150-51/2170-71 English I (Level 5, 7) Required 9

10 hrs

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. A sequential vocabulary program is followed throughout the year. The emphasis in each area varies with the level.

### 2250-51/2270-71 English II (Level 5, 7) Required 10

10 hrs

This course builds on the language arts program introduced in English I. The study of literature is by genre. Speech and writing 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.

### 2350-51/2370-71 English III (Level 5, 7) Required 11

10 hrs

This 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 chronological survey of American writings as they were formed by the people and issues of the times. In addition to writing shorter pieces of composition, the complete process of writing a research paper is thoroughly covered with final instructions for a college-level research paper. Vocabulary study continues throughout the junior year.

### 2454-55/2476-77 English IV (Level 5, 7) Elective 12

10 hrs

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.
2580-81  AP English Literature and Composition (Dual Credit)  
Elective 12  10 hrs
An AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider 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. A summer reading unit is required before the start of this course. Students interested in taking the Advanced Placement Exam in English Literature and Composition for possible college credit should register for this course.

2582-83  AP English Language and Composition (Dual Credit)  
Elective 11  10 hrs
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.

2610-11  Beginning Journalism (Level 7)  
Elective 10, 11, 12  10 hrs
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.

2620-21  Advanced Newspaper Production (Level 7)  
Elective 11, 12  10 hrs
Students in this class assume all responsibility for the production of the school newspaper. Beginning Journalism is a prerequisite for this course, as is instructor approval.

2710-11  Yearbook Production (Level 5)  
Elective 10, 11, 12  10 hrs
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

3156-57/3176-77 World Civilization (Level 5, 7) 
Required 9 
10 hrs
The World Civilizations course covers world history from a regional perspective. The course begins with an overview of European history from the classic period of the Greek and Romans until World War One. Including the Middle Ages, Non-Western civilizations that will be covered in depth include Africa, the Americas, Asia, and the Middle East. In addition, special focus is placed on the many facets of revolutions in world history, architecture, and the five major world religions.

3210/3270 Social Issues Today (Level 5, 7) Elective 10 Sem I 
5 hrs
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.

3221/3227 The World Today (Level 5, 7) Elective 10 Sem II 
5 hrs
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. Topics change annually, but may include such things as the AIDS crisis in Africa, overseas investments by American companies and the international drug trade. Further research into a culture of particular interest to individual students is also required and guest speakers from around the globe are sought out to give students a global outlook.

3251 Today’s Politics (Level 7) Elective 10, 11, 12 Sem II 
5 hrs
This course is a one-semester course offered in the fall 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 corruption, international affairs, active citizenship, local government, and the application of Catholic stances on different political issues.

3356-57/3376-77 United States History (Level 5, 7) Required 11 
10 hrs
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, Turn of the Century, 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.

3410/3421 U. S. Government (Level 5) Required 12 
Sem II 
5 hrs
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.
3471  AP Government (Dual Credit)   Elective 12   Sem II   5 hrs
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 right 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.

3480-81 AP United States History (Dual Credit) Elective 11, 12   10 hrs
AP US History is designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in US History. The course encompasses all eras from the pre-Columbian to the present. Students have the option of taking the advanced placement test in May to obtain college credit. Special attention will be given to preparing for the documents based questions on the AP Exam and synthesizing primary source materials within the textbook content of US History. Successful completion of this course satisfies the US History graduation requirement in Social Studies.

3550-51/3570-71 Applied Economics (Level 5, 7) Required 12   Sem I   5 hrs
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.

3650/3670 Psychology I (Level 5, 7)   Elective 11, 12   Sem I   5 hrs
This course serves as an introduction to basic psychological concepts. Topics such as aspects of 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.

3751/3771 Psychology II (Level 5, 7)   Elective 11, 12   Sem II   5 hrs
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. Prerequisite: Psychology I or consent of the instructor.

3850/3870 Law I (Level 5, 7)   Elective 11, 12   Sem I   5 hrs
Law I will stimulate students interest in criminal law, criminal procedure and criminal justice. Students will understand what happens to criminals from the investigation period up to trial. 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.

3951/3971 Law II (Level 5, 7) Elective 11, 12 Sem II 5 hrs
Law II will help students understand more of what happens in civil areas of the law. Topics to study include torts (private lawsuits), contracts, workers compensation, landlord-tenant and sports law. This course will help prepare students for a career in business or the legal profession. Prerequisite: Law I or consent of the instructor.

MATHEMATICS

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.

4124-25 Algebra Concepts (Level 5) Elective 9, 10 10 hrs
This course is an introduction to basic algebra concepts and a review of arithmetic algorithms. The course is designed to help students strengthen foundational understandings, emphasizing the concepts necessary to be successful in Algebra I. Along with the continued study of integers, order of operations, variables, expressions, and equations, students develop good mathematical study skills and learning strategies as an integral part of this course. Students will solve and graph equations and inequalities, write and solve proportions, and explore geometry, statistics, and graph concepts. Problem solving will be emphasized throughout the course.

4150-51/4170-71 Algebra I (Level 5, 7) Elective 9, 10 10 hrs
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. (If recommended, the student can enroll in Algebra I Level 7 and Geometry Level 7 during the same school year.)

ALL OF THE FOLLOWING MATH COURSES MUST HAVE TEACHER APPROVAL

4250-51/4270-71 Geometry (Level 5, 7) Elective 9, 10, 11 10 hrs
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. Level 7 includes trigonometry, special right triangles, law of sine, law of cosines, and derive the area formula with sine.
**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). *(If recommended, the student can enroll in Geometry Level 7 and Algebra II level 7 during the same school year.)*

**4314 Math Applications (Level 5)**  
Elective 11, 12  Sem I  5 hrs  
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.

**4315 Stat Applications (Level 5)**  
Elective 11, 12  Sem II  5 hrs  
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.

**4350-51/4370-71 Algebra II (Level 5, 7)**  
Elective 10, 11, 12  10 hrs  
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.  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.

**4434-35 College Algebra (Dual Credit)**  
Elective 11, 12  10 hrs  
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.

**4444-45 AP Statistics (Dual Credit)**  
Elective 12  10 hrs  
AP Statistics is designed to match an introductory university statistics course. It is recommended for college bound seniors. Topics include exploratory data analysis, planning studies, application of probability in predicting patterns, and selecting and using appropriate models to make inferences. Students will also use statistics software to perform statistical techniques. A graphing calculator is required (TI84+ is preferred).  Prerequisite: Seniors with a least a B in Algebra II Level 7, Analysis or Pre-calculus.
4470-71 Pre-Calculus (Dual Credit)  Elective 10, 11, 12  10 hrs
This course prepares students for a calculus course. Topics covered are functions (linear, quadratic and polynomial) and their graphs, exponents and logarithms, analytic geometry and conic sections, trigonometric functions, equations and identities, and complex numbers, vectors and determinants, sequences and series. If time allows, an introduction to limits will be included. A graphing calculator is required (A TI83+ or TI84+ is preferred.). Prerequisite: At least a C in Algebra II (Level 7) or at least a B in Analysis.

4584-85 AP Computer Science Principles  Elective 10, 11, 12  10 hrs
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. Prerequisite: Successful completion of Geometry or teacher recommendation.

4586-87 AP Computer Science Principles A (APC) Elective 10, 11, 12  10 hrs
AP Computer Science A is a programming class in Java, a popular in-demand programming language. Java is used to build server-side applications, games, and financial applications, and is the core foundation for developing Android apps. Students will be introduced to topics that include problem-solving, design strategies and methodologies, organization of data (data structure), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. Language: Java  Prerequisites: No prior computer science experience requires. Must have passed Algebra I & Geometry. AP credit optional.

4770-71 AP Calculus AB (Dual Credit)  Elective 12  10 hrs
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 Physics C with AP Calculus AB(Students must register for both courses)
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 (6592-93): 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.

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 LANGUAGES**

**5210-11  Spanish I (Level 5)   Elective 9, 10, 11, 12   10 hrs**
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.

**5220-21  Spanish II (Level 5)   Elective 9, 10, 11, 12   10 hrs**
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.

**5230-31  Spanish III (Level 7)   Elective 10, 11, 12   10 hrs**
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.

**5240-41  Spanish IV  (Level 7)   Elective 11, 12   10 hrs**
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.

**5260-61  AP Spanish  Elective 12   10 hrs**
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.
5310-11 French I (Level 5) Elective 9, 10, 11, 12 10 hrs
This course is an introduction to the French language. Class time is spent developing listening, speaking, reading and writing skills, with an emphasis on speaking. Activities include pair work, conversations, and grammar practice. Culture is explored through customs in various French-speaking countries and are related to meeting people, school, eating out, shopping, and travel. French is used as much as possible in class and an emphasis is placed on communication and pronunciation. This is facilitated through songs – particularly for help in remembering fundamental grammar points, paired work, and learning a poem.

5320-21 French II (Level 5) Elective 9, 10, 11, 12 10 hrs
This course is designed to further develop the skills learned in French I. Students will continue learning and practicing their listening, speaking, reading, writing skills and continued learning of French pronunciation. The dictée is introduced at this level. Culture includes vacations, sports, museums, theater, and travel. The emphasis is still on speaking, so French is used by the teacher and students as much as possible. Prerequisite: French I passed with a C grade or higher.

5330-31 French III (Dual Credit) Elective 10, 11, 12 10 hrs
This course further develops the skills learned in the first two years of language study. There is an increased emphasis on written and oral skills. Students will explore cultural aspects of French-speaking countries and begin literature studies. Class is conducted mostly in French and students are expected to communicate mostly in French. Prerequisite: French II passed with a C grade or higher. Saint Louis University (SLU) level 110 class dual college credit (3 College Credit Hours)

5340-41 French IV (Dual Credit) Elective 11, 12 10 hrs
This course is a continuation of French III and provides a greater emphasis on literature and contemporary culture of France and other French-speaking countries. Language skills will be refined through written and spoken work as well as authentic audio and video material. Class is conducted almost exclusively in French. Prerequisite: French III passed with a C grade or higher. Saint Louis University (SLU) level 115 (fall) and 210 (spring) dual college credit (6 College Credit Hours)

SCIENCE

6154-55/6176-77 Conceptual Science (Level 5, 7) Required 9 10 hrs
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.

6250-51/6270-71 Biology (Level 5, 7) Required 9, 10, 11 10 hrs
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.

6350-51/6370-71 Human Anatomy and Physiology (Level 5, 7)
Elective 10, 11, 12 10 hrs
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.

6390-91/6396-97 AP Biology/SLU Biology 1240/1245 (Dual Credit)
Elective 11, 12 10 hrs
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. Prerequisites: Biology, Chemistry and consent of the instructor.

6450-51/6470-71 Chemistry (Level 5, 7) Elective 10, 11, 12 10 hrs
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. Prerequisites: Conceptual Science.

6490-91 AP Chemistry Elective 11, 12 10 hrs
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. Prerequisites: Chemistry level 7 and teacher recommendation.

6554-55 Astronomy (Level 5) Elective 10, 11, 12 10 hrs
This course gives students the opportunity to learn about the nature of light, telescopes and other instruments used in astronomy, solar systems, stars, galaxies, and cosmology through lectures, simulations, and projects. Algebra-level math will be used to solve problems in this course.
Physics (Level 7)  Elective 11, 12  10 hrs
Physics (Level 7) 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.

AP Physics 1  Elective 11, 12  10 hrs
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).

AP Physics C with AP Calculus AB (Students must register for both courses)  Elective 11, 12  10hrs
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.

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.

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.

Global Science (Level 5)  Elective 11, 12 Sem I/II  5 hrs
A discussion and laboratory course devoted to the study of our global ecosystem, Spaceship Earth! This course equips the student with the necessary information to understand environmental problems and solutions. The student will develop an appreciation for our local as well as the global ecosystem through the study of topics such as basic ecological concepts, natural resource use and conservation; pollution, energy sources and decisions on environmental policy at all governmental levels. Prerequisites: Conceptual Science and Biology and teacher approval. Students may take first semester, second semester or both.
6810/6821 Independent Research Study (Level 7) Elective 11, 12 Sem I/II Cr. Arr.
This course is open to any student wishing to explore a specific area in science on an individual basis. The student will select a problem for in-depth study. A scientific paper must be written at the termination of the research. Exhibits may be required in some cases. It will be recommended that students in this course exhibit their work at a Science Fair and/or at The University of Iowa's Science Symposium. The student must meet with his teacher-adviser on a weekly basis. Prerequisite: 2 years of high school science and teacher approval to enter at the beginning of the school year.

6930/6941 Science Lab Assistant (Level 5) Elective 9, 10, 11, 12 Cr. Arr.
This course is open to any student wishing involvement with the tasks essential to keep the Biology, Chemistry, and Physics labs operating efficiently. The tasks most frequently performed are activities involving weighing, mixing solutions, running errands and cleaning. Consent of the Science Department members is required for participation in this opportunity.

BUSINESS

7140/7141 Introduction to Business (Level 5) Elective 9, 10 Sem I/II 5 hrs
This course will introduce the students to the world of business. Using the information and activities learned in this course, students will increase their preparation for becoming knowledgeable consumers, well-prepared employees, and gain a deeper understanding of all the responsibilities and costs of living on their own. Some topics covered in this course are time management, job hunting, career planning, money management and financial planning, maintaining a checkbook, conducting online banking services, securing consumer credit, and insurance. This course will serve as an introduction to other business courses that are offered at Xavier High School and as an introduction for future education, moving away from home, and employment.

7234 Computer Graphics Design (Level 7) Elective 9, 10, 11, 12 Sem I 5 hrs
Computer graphics design is the process and art of combining text and graphics and communicating an effective message in the design of logos, graphics, brochures, newsletters, poster, signs, and any other type of visual communication. Today’s graphic designers often use desktop publishing software and techniques to achieve their goals. In this course, students will become familiar with desktop publishing software as well as the do's and don’ts of layout design. They will utilize simple and advanced software features to create and enhance projects. At times the students will complete projects that have been requested for public promotion. Prerequisite: Consent of the instructor.

7235 Desktop Publishing (Level 7) Elective 9, 10, 11, 12 Sem II 5 hrs
Kirkwood Community College 3 hrs
This course allows students to create professional-quality documents, such as one-page bulletins or short newsletters, using desktop publishing software. The student will also integrate text, graphics and image files previously created with a variety of application software. Students
will use the Adobe software products, InDesign and Photoshop. Prerequisite: Computer Graphics Design.

**7256 Computer Business Applications (Level 7)**  
**Elective 9, 10, 11, 12  Sem I  5 hrs**

Students will work toward certification in both Microsoft Word and Microsoft Excel 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. Integrated projects using Word and Excel will be completed. Prerequisite: Very beneficial to be proficient in keyboarding skills.

**7275 Intermediate Computer Business Applications (Level 7)**  
**Elective 9, 10, 11, 12  Sem II  5 hrs**

Students will work toward certification in both Microsoft Access and Microsoft PowerPoint as Xavier is now a Microsoft IT Academy and a Certiport Testing Center. This course extends the basic knowledge of Microsoft Access and PowerPoint. In addition, students will learn more advanced features of using Microsoft Word and Excel. Upon completion of the course students should be able to demonstrate proficiency at the core level of the Microsoft Office Specialist certification and become MOS certified. Prerequisite: Computer Business Applications.

**7330/7331 Intercultural Communications (Level 5)**  
**Elective 9, 10, 11, 12  Sem I  5 hrs**

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.

**7416-17 Accounting (Level 7)**  
**Elective 11, 12  10 hrs**

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. **

**7426 Marketing (Level 7)**  
**Elective 11,12  Sem I  5 hrs**

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.

**7429 Entrepreneurship and Innovation (Level 7)**

Elective 11, 12    Sem II   5 hrs

This course is designed to promote innovation and entrepreneurship and will promote every 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. The current cost is $150 and will be payable upon successful completion of the U of I exam. Level 7.

** Xaver currently offers two Kirkwood Community College (KCC) courses that provide both high school credit from Xavier and college credit from KCC. The courses offered through the Business Department that are available for dual credit are: Intermediate Computer Business Applications and Desktop Publishing. There is an additional cost passed on to the student that is paid to Kirkwood but this amount is substantially lower than normal. Any student enrolled in one of these courses at Xavier is expected to take the course as college credit.

** FINE ARTS **

Students must take at least 5 hours of fine arts courses to graduate. Courses in vocal music, instrumental music, art, and drama fulfill this requirement.

** VOCAL MUSIC **

Students may register for more than one 5 hour course in vocal music if their schedule allows it.

**8120-21 Xavier Chorale**

Elective 10, 11, 12   5 hrs

The Xavier Chorale is an auditioned ensemble for students in grades 10-12. Auditions are held the previous spring semester and students are selected based on tone quality, musicianship, sight-reading ability, and attitude. The ensemble rehearses and performs a wide variety of four to eight part a cappella literature. Performances range from choral concerts to state contest. Xavier Chorale is the top curricular vocal ensemble at Xavier and rehearses regularly on an A or B day. Individual vocal development and ensemble musicianship are required.

**8132-33 Singing Saints**

Elective Men 9, 10, 11, 12   5 hrs

Singing Saints is open to any male student, grades 9-12. This ensemble provide students with an opportunity to rehearse and perform a wide variety of choral literature. Performances range from choral concerts to state contests. Emphasis will be placed on vocal technique, music literacy skills, and exposure to choral literature. This class meets regularly on an A or B day.

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8140-41 Women's Chorale  Elective 9, 10, 11, 12  5 hrs
Women's Chorale is an auditioned ensemble for women in grades 9-12. Auditions are held the previous spring semester and students are placed based on tone quality, musicianship, sight-reading ability, and attitude. This ensemble rehearses and performs a wide variety of women’s choral literature. Performances range from choral concerts to state contest. Women’s Chorale rehearses regularly on an A or B day. Individual vocal development and ensemble musicianship are required.

INSTRUMENTAL MUSIC

8210-11 Marching Band/Pep Band/Concert Band  Elective 9, 10, 11, 12  10 hrs
Instrumental music (Band) is a two-semester class which meets daily 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), and take one (1) fifteen-minute private lesson per scheduled due date with the band director. Those who study with a private instructor are required to turn in documentation for each lesson as well as have one lesson with the band director per quarter to ensure adequate progress.

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 daily 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. The State Large Group Festival is the single most important day of our year because it determines the validity of the program.

Marching Band* meets daily from the beginning of the school year until mid-October. Band members perform pre-game and halftime field shows at home varsity football games and participate in 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 one-week marching band camp held prior to the start of the year as well as a percussion mini-camp and sectionals for all groups throughout the summer. In addition, 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 earlybird fitness/wellness.- they do not conflict.)

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 the IHSMA State Solo and Small Ensemble Festival. Other performing opportunities for solos/small ensembles include public performances, master class settings with guest artists and peers, and the All-City Music Festival.

Jazz Bands* are 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. Required performances are determined in late November at the beginning of basketball season.

Finally, 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. Students must remain eligible in order to participate in anything related to instrumental music. Good conduct is expected and poor conduct will not be tolerated.

All students must take enrollment into band seriously. Marching band drill is written prior to the camp in August and students must be enrolled prior to then. Student schedule changes concerning band for the fall semester should be initiated through the band instructor prior to July 20. Student schedule changes concerning band for the spring semester must be done on the first day of the new semester or before. The 10 day Drop-Add policy DOES NOT apply to instrumental music. This is to ensure that curricular progress is made by the entire group.

*Xavier High School is a member of the Iowa High School Music Association. Students enrolled in an IHSMA-member school are required to be in concert band in order to participate in any IHSMA-sponsored or IHSMA-approved instrumental music festival. These include All-State, Marching Band, All-State Festivals, Jazz Band One and Two, and Solo & Small Ensemble Festival.

8240-41 Music Theory I/II Elective 11, 12 5 hrs
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 15th – 20th Centuries. 21st 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.

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.

**8320/8321 Art Explorations (Level 5) Elective 9, 10, 11, 12 Sem I/II 5 hrs**
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. A $30 materials fee is required. Limited to 20 students per section.

**8330 Calligraphy (Level 5) Elective 9, 10, 11, 12 Sem I 5 hrs**
Calligraphy adds creative flair to correspondence, parties, decorations, art projects, and more. Learn more about this ancient art that is still popular today. You will learn to create backgrounds out of watercolors and other materials to highlight your lettering skills. A $30 materials fee is required. No prerequisites. Limited to 20 students.

**8354/8355 Digital Photography I (Level 7) Elective 10, 11, 12 Sem I/II 5 hrs**
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 $30 materials fee is required. No prerequisite. Limited to 16 students.

**8365 Digital Photography II (Level 7) Elective 10, 11, 12 Sem II 5 hrs**
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 $30 materials fee is required. Prerequisite: Pass Digital Photography I with a “C+” or better. Limited to 16 students.

**8410/8411 Painting I (Level 5) Elective 10, 11, 12 Sem I/II 5 hrs**
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 $30 materials fee is required. Prerequisite: Drawing I is recommended or previous art experience. Limited to 15 students.

**8421 Painting II (Level 7) Elective 10, 11, 12 Sem II 5 hrs**
In addition to building on previous work, this course will allow you to gain experience with oil painting and gaucho. A collaborative large-scale project will be created with the intent of permanent display within the school or community. A $30 materials fee is required. Prerequisite: Painting I with a “C” or better and teacher recommendation. Limited to 15 students.
8530 Graphic Design (Level 7) Elective 10, 11, 12 Sem I 5 hrs
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 $30 materials fee is required. No prerequisite. Limited to 15 students.

8531 Sculpture and 3D-Design (Level 7) Elective 10, 11, 12 Sem II 5 hrs
Further develop your artistic skills by creating 3-dimensional art and designs. A variety of mediums will be explored using various sculpting techniques. You will also be introduced to concepts of architecture and 3D printmaking. A $30 materials fee is required. No prerequisite. Limited to 15 students.

8610/8621 Drawing I (Level 5) Elective 9, 10, 11, 12 Sem I/II 5 hrs
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 $30 materials fee is required. No prerequisite. Limited to 20 students.

8641 Drawing II (Level 7) Elective 9, 10, 11, 12 Sem II 5 hrs
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 $30 materials fee is required. Prerequisite: Drawing I with a “C+” or better. Limited to 15 students.

8710/8721 Ceramics I - Intro To Wheel (Level 5) Elective 9, 10, 11, 12 Sem I/II 5 hrs
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 ceramics courses. A materials fee is required. No prerequisite. Limited to 12 students per section.

8730/8741 Ceramics II - Advanced Wheel (Level 5) Elective 9, 10, 11, 12 Sem I/II 5 hrs
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. Limited to 12 students per section.

8750/8761 Ceramics III - Advanced Wheel (Level 7) Elective 10, 11, 12 Sem I/II 5 hrs
Ceramics III is about advanced techniques and individual choices. After developing a concentration and progression of work you will produce a portfolio of the semester. Students need to be self-directed because they will each be on a different path. A $30 materials fee is required. Prerequisite: Ceramics II with “B” or better and teacher recommendation. Limit to 12 students.
8810/8821 Independent Study (Level 7) Elective 11, 12 Sem I/II Cr. Arr.
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 to enroll in this course.** A $30 materials fee required.

8870-71 AP Studio Art Drawing Elective 11, 12 10 hrs
(Drawing, Painting, Photography or any 2D or 3D Media)
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. Prerequisite: Drawing I, Painting I, (Painting II, and/or Drawing II are also highly recommended) and consent of the instructor.

**DRAMA AND FILM**

8923 Acting II (Level 7) Elective 9, 10, 11, 12 Sem II 5 hrs
This one semester, level 7 acting course expands upon the actor’s work in the “beginning” course, offering a more in-depth, progressive study of acting with more individual and group performance assignments. Students will increase their knowledge of internal and external acting principles and will do advanced work on voice and diction, characterization, and improvisation. This course will introduce students to the aspects of audition techniques, a closer look at speaking and performing Shakespeare, 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 acting and theater at its finest. Prerequisite: Introduction to Theatre.

8934/8935 Film Studies (Level 5) Elective 9, 10, 11, 12 Sem I/II 5 hrs
Film Studies will introduce students to the film industry and the history of cinema through the study of classic and contemporary films. Emphasis will be placed on exposing the class to a wide variety of styles and genres as well as formulating and justifying criticisms of the works. Stories told with film have a tremendous influence on our attitudes and perceptions of the world around us. In fact, films may be one of the most powerful tools in modern culture for shaping values and conveying information. By viewing, studying, discussing and writing about film, students develop and demonstrate skills in technological, cultural, and media literacy, as well as critical thinking and problem solving - skills. There will also be a secondary interest in writing, including analytical, personal and creative. You will complete a project in which you will translate selected screenplays into short films.

8970/8971 Intro to Theater (Level 5) Elective 9, 10, 11, 12 Sem I 5 hrs
This one-semester overview of acting is designed for both the student new to theater and the student with a general background in the theater. 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.

**Fitness and Wellness**

A minimum of 5 hours of Fitness/Wellness is required of each student each year.

A minimum of 10 hours is required for graduation. Students have two 2.5 hour options to help meet the graduation requirements. They are:

1. Take both two-week summer courses (that counts for 5 hours 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 hours of Fitness/Wellness.*

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

**9116/9117 Team Sports 9-10 Elective 9, 10 Sem I/II 5 hrs**
Students will learn the rules, skills, fundamentals and strategies of a variety of team activities. Sportsmanship, participation and effort throughout the class, testing of skills and knowledge will all be methods of evaluation. Activities include but are not limited to basketball, speedball, cage ball, 16-inch softball, floor hockey, team handball.

**9118/9119 Health/Wellness Elective 9, 10, 11, 12 Sem I/II 5 hrs**
Students will learn the foundation of developing a healthy lifetime exercise program. Also covered is addictive behaviors and the prevention of infectious diseases. They will become more confident in making informed decisions that will empower them to achieve and maintain a healthy lifestyle. Labs, class activities, and objective testing will be included for assessment purposes.

**9126/9127 Lifetime Sports 9-10 Elective 9, 10 Sem I/II 5 hrs**
Students will learn rules, skills, fundamentals and strategies of a variety of lifetime sports, both individual and dual sport activities. Sportsmanship, participation and effort throughout the class, testing of skills and knowledge will all be methods of evaluation. Activities include, but are not limited to Fish Iowa, badminton, deck tennis, pickleball, fly fishing, archery, disc golf, orienteering, juggling, croquet, corn hole.
9136/9137 Team Sports 11-12  
**Elective 11,12  Sem I/II  5 hrs**
Students will learn rules, skills, fundamentals and strategies of a variety of team activities. Sportsmanship, participation and effort throughout the class, testing of skills and knowledge will all be methods of evaluation. Activities include, but are not limited to flag football, lacrosse, indoor soccer, 3 on 3 basketball, broomball, volleyball, tchoukball, and ultimate Frisbee.

9146/9147 Lifetime Sports 11-12  
**Elective 11, 12  Sem I/II  5 hrs**
Students will learn rules, skills, fundamentals and strategies of a variety of lifetime sports, both individual and dual sport activities. Sportsmanship, participation and effort throughout the class, testing of skills and knowledge will all be methods of evaluation. Activities include, but are not limited to tennis, ultimate Frisbee, futsal, Hooverball, indoor speedball, table tennis, shuffleboard, dance, badminton, pickleball on tennis courts, outdoor recreational games (bocce, horseshoes, spikeball, "sand" volleyball), golf.
Off-campus opportunities (i.e. Bowling) are sometimes available and may require an additional fee.

9150/51 Earlybird F/W  
**Elective 9, 10, 11, 12  Sem I/II  2.5 hrs**
Class meets before school from approx. 6:45-7:30 a.m.

9154 Personal Fitness 9-10  
**Elective 9, 10  Sem I  5 hrs**
Students will learn a variety of cardiovascular fitness activities. Emphasis is to establish lifelong wellness opportunities. Activities will include, but are not limited to: cardio/endurance, circuit training, core work, medicine and stability balls, resistance bands, low impact, DVD workouts, yoga, step-aerobics, and tabata.

9155 Personal Fitness 11-12  
**Elective 11, 12  Sem II  5 hrs**
Students will learn a variety of cardiovascular fitness activities. Emphasis is to establish lifelong wellness opportunities. Activities will include, but are not limited to: Cardio/endurance, circuit training, core work, medicine and stability balls, resistance bands, low impact, DVD workouts, yoga, step-aerobics, and tabata.

9160/61 Summer F/W (Session I/II)  
**Elective 9, 10, 11, 12  2.5 hrs**
Summer F/W provides Fitness/Wellness credit during the summer. There are two 2-week sessions each earning a student 2.5 hours credit. Classes usually run from 8:00 a.m. to 11:00 a.m. Monday through Friday. An additional fee is required.

9170/71 Weight Training and Conditioning  
**Elective 11, 12  Sem I/II  5 hrs**
Beginning and advanced will be offered to students. Students will learn proper lifting techniques, spotting methods, weight room safety and workout routines specific to student’s emphasis. Activities will include but are not limited to, circuit training, core work, endurance, free weights, lower body lifts, upper body lifts, plyometrics.
ADDITIONAL ELECTIVES

9210/9221 Student Athletic Training Internship Elective  Sem I/II  Cr. Arr.
This internship program is for students interested in the further study of Athletic Training, Physical Therapy, or similar medical professions. 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 hours for the internship. This time will be accumulated during after-school and home/away athletic events. Plans for this internship must be approved by the certified athletic trainer prior to the semester.

GST1/GST2 Strategies Classroom Elective Sem I/II Cr. Arr.
Strategies is a quieter environment for study, focus, and help learning study skills, organizational skills, self-advocacy skills, and more. Strategies is for students with 504 Accommodation Plans only. Students must have Strategies scheduled as a class to get course credit. Students will be graded on a Pass/Fail grading scale, and are expected to complete tasks assigned to them by their Strategies teacher. Students may use Strategies time to get help from an XTrA 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.

9430-31 Shared Time Elective 11, 12 Cr. Arr.
It is possible for the students at Xavier High School to take many courses offered at either Washington, Linn Mar, Marion, or Kennedy High School. Students interested in a Shared Time course should inquire at the Guidance Office. Registration for such courses must be made early so that these schools may be notified of your intention to take such a course. Transportation to and from Xavier is to be independently arranged by the student for all shared time courses.

College Credit in High School

9634/9635 Healthcare Innovator (Dual College Credit)  Sem I/II
Elective 10, 11, 12  5 hrs
University of Iowa  3 credit hours*
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)
*You must apply for 3 semester hours of credit in the Tippie College of Business; only students meeting an end of the course assessment stanine score are eligible.

9468 PLTW Introduction to Engineering Design (Dual College Credit)

Elective 10, 11, 12    10 hrs
Kirkwood Community College  3 credit hours

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. Kirkwood credits transfer to the University of Iowa as ENGR:1430 (3 hours*). Prerequisite: Geometry 4250-51 or 4270-71.

*You must apply for 3 semester hours of credit in the College of Engineering; only students receiving a PLTW end of course assessment stanine score of 6 or better are eligible to apply

9479 PLTW Principles of Engineering (Dual College Credit)

Elective 11, 12    10 hrs
Kirkwood Community College  3 credit hours

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. Kirkwood Community College credits transfer to the University of Iowa as ENGR:1431 (3 hours*). Prerequisite: PLTW Introduction to Engineering Design.

*You must apply for 3 semester hours of credit in the College of Engineering; only students receiving a PLTW end of course assessment stanine score of 6 or better are eligible to apply.

9610/9621 AREA 10 Student Internship Program (Level 5)

Elective 11, 12    2.5/5 hrs

The Area 10 Student Internship Program is coordinated through the 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  Students learn new skills, apply classroom knowledge
and develop successful work place behaviors. The AREA 10 Student Internship Program can help students gain the insight necessary to make an informed career choice. Students must complete 45 or 90 hours of on-site learning during the term, attend and participate in 6 hours of career skill development meetings and complete a guided student journal in order to receive elective high school academic credit. Sessions are offered throughout the school year and summer. Summer sessions are open for application to current sophomores and juniors. Please see website for complete details.

Kirkwood’s Career Academies
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: **Industrial Tech Pathways:** 1. Auto Tech, 2. Auto Collision, 3. Architecture, Construction, and Engineering (ACE), 4. Adv. Manufacturing with Robotics and Welding. **Health Occupations/Allied Health Science Academies:** 1. Dental, 2. EMT Patient Care, 3. Pharmacy Tech, 4. Pre-professional Health Careers. **Concurrent Enrollment/Pre-Transfer Experiences:** Take two courses per semester from a list of college transfer options.

See one of the counselors for more information. February and March deadlines to apply.

Post-Secondary Enrollment Option
Xavier students have the opportunity to take college courses for high school and/or college credit. Mount Mercy, Coe and Kirkwood are some of the schools that have participated. See one of the counselors for more information.

Saint Louis University (SLU) 1818 Advanced College Credit Program
The 1818 Advanced College Credit Program provides an opportunity for qualified high school juniors and seniors to begin experiencing the academic rigors of college course work while still at Xavier. The SLU1818 program allows students to take courses with SLU certified instructors who serve as adjunct professors. This means that students who are taking the following courses at Xavier earn credit from St. Louis University at a cost of only $65 per credit hour: 2nd semester French III (Communicating in French I) French IV (Intermediate French: Language and Culture), Comparative Religions (Religions of the World), Philosophy of Theology, AP/SLU- Biology (Principles of Biology I), AP English Literature and Composition (Conflict, Social Justice and Literature), College Algebra, Pre-Calculus, AP Calculus, and AP Statistics (Elementary Statistics with Computers) AP US History, AP US Government.

More information can be found on the SLU website here: [http://www.slu.edu/1818-advanced-college-credit-program/parents](http://www.slu.edu/1818-advanced-college-credit-program/parents). See a counselor if you are interested.