

McAuley Catholic High School



Course Catalog

2022-2023

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Introduction

McAuley Catholic is named after Catherine McAuley who lived from 1778 to 1841. Catherine was born into a wealthy family in Ireland. Her father, who died when Catherine was very young, brought poor children to their home on weekends for instruction in the Catholic faith, and his compassion influenced her entire life. Catherine's mother taught her independence, poise, and charm, and after her mother's premature death, Catherine went to live with the Callaghans. For twenty years, she cared for them and their estate, grew closer to God through prayer, and performed works of charity. She inherited the Callaghans' fortune and used the money to build the House of Mercy, a home for working girls and orphans and a school for poor children. Other women joined her, and in 1831, Catherine founded the Sisters of Mercy. Soon they were invited to other parts of Ireland and England. Two years after Catherine's death, Frances Warde led the Sisters of Mercy to the United States. Within fifty years, the circle of Mercy encompassed the world. The Sisters of Mercy established Catholic schools in Joplin in 1885.

Mission Statement: The Joplin Area Catholic School System (JACSS) provides students a strong academic and Catholic faith foundation. Our goal is to teach young people to integrate Christian values into all aspects of life. We provide students with educational and social skills needed to be active, productive members of the community and Church. We endeavor to graduate young adults who are effective witnesses to the presence of Christ in the world.

Students at McAuley Catholic High School spend four years preparing for their futures by developing their hearts, minds, and souls to be Christ-like stewards in their everyday lives. Students in grades 9-12 benefit from a course load that provides a Missouri College Prep Certificate as well as the opportunity to take courses for college credit. We strive to graduate young adults who make decisions with Christ in mind as they are the future of the Joplin community, the nation, and our church community.

This catalog provides information about all course offerings. The process of scheduling classes is one of the most important things you and your student will do over the next four years. When reviewing your student's schedule, carefully consider all available course options and assist your student in making choices that are best for him/her.

Below are some important policies and scheduling suggestions to be aware of as you make scheduling choices.

Academic Information

M^cAuley Catholic High School is a member of, and accredited by, the Missouri Nonpublic School Accrediting Association. We offer a variety of courses, each of which is designed to prepare students for future success.

Graduation Requirements*

| Subject | Credits |
|--------------------|--|
| Theology | 4.0 |
| English | 4.0 |
| Mathematics | 3.0 |
| Science | 3.0 |
| Social Studies | 2.5 |
| Government | 0.5 |
| Personal Finance | 0.5 |
| Practical Arts | 1.0 |
| Fine Arts | 1.0 |
| Foreign Languages | 2.0 |
| Health Education | 0.5 |
| Physical Education | 1.0 |
| Electives | 9.0 |
| Total | 31.00 (<i>Class of 2023</i>) <i>Class of 2024 and beyond 32.00 required</i> |

**All students must pass the U.S. Constitution test, Missouri Constitution test and a Civics exam.*

Grading Scale

| Letter Grades | Percent | Point Value | Honors Point Value |
|---------------|---------|-------------|--------------------|
| A | 93-100 | 4.0 | 5.0 |
| A- | 90-92 | 3.667 | 4.667 |
| B+ | 87-89 | 3.333 | 4.333 |
| B | 83-86 | 3.0 | 4.0 |
| B- | 80-82 | 2.667 | 3.667 |
| C+ | 77-79 | 2.333 | 2.333 |
| C | 73-76 | 2.0 | 2.0 |
| C- | 70-72 | 1.667 | 1.667 |
| D+ | 68-69 | 1.333 | 1.333 |
| D | 66-67 | 1.0 | 1.0 |
| D- | 65 | 0.667 | 0.667 |
| F | 0-64 | 0 | 0 |

*Students must earn a B- or higher in Honors courses to receive the Honors Points Value.

Grade Point Average (GPA)

McAuley Catholic has a 4.0 grading scale. Cumulative grade point averages are weighted and calculated at the end of each semester.

McAuley Catholic High School Graduation Honors

The ranks of Valedictorian and Salutatorian are recognized based on the students' cumulative grade point average (GPA) at the end of the second semester of the senior year. The top ranked student will be named Valedictorian. The second ranked student will be named Salutatorian. A student must qualify for a College Preparatory Certificate to be considered for Valedictorian and Salutatorian honors.

THEOLOGY

| Freshman | Sophomore | Junior | Senior |
|--|--|--|--|
| <p><i>Even Grad Years:</i> The Paschal Mystery..Christ’s Mission of Salvation/ Jesus and the Church Today</p> | <p><i>Even Grad Years:</i> The Paschal Mystery..Christ’s Mission of Salvation/ Jesus and the Church Today</p> | <p><i>Even Grad Years:</i> Exploring World Religions/Catholic Vocation and Mission</p> | <p><i>Even Grad Years:</i> Exploring World Religions/Catholic Vocation and Mission</p> |
| <p><i>Odd Grad Years:</i> Revelation of Jesus Christ/Jesus Christ His Mission and Ministry</p> | <p><i>Odd Grad Years:</i> Revelation of Jesus Christ/Jesus Christ His Mission and Ministry</p> | <p><i>Odd Grad Years:</i> Sacraments/ Foundations of Catholic Morality and Social Justice</p> | <p><i>Odd Grad Years:</i> Sacraments/ Foundations of Catholic Morality and Social Justice</p> |

All students are required to take one full year of Theology each year. Students must earn 4.0 credits during grades 9-12.

Freshmen and Sophomores:

During EVEN graduating years will take the following courses:

THEO 200 The Paschal Mystery..Christ’s Mission of Salvation
Semester 1 0.5 Credit Grades 9-10

This course focuses on the Paschal Mystery and is an introduction 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, and that He fulfills the old covenants and Old Testament prophecies. Students will learn that the encounter with Jesus in the Eucharist is a call to bring Him into our lives and into the world. This course is in conformity with the United States Bishops Curriculum Framework and fulfills the requirements for core course III.

THEO 240 Jesus and the Church Today **Semester 2 0.5 Credit Grades 9-10**

This course focuses on the developments of the Catholic Church following Jesus’ appearance to the Apostles at Pentecost throughout history to the present day. It is designed to help students know Jesus through His people, the Church, and to recognize the ongoing presence of the Holy Spirit in the Church’s history. Topics such as the saints and other prominent Catholic characters, major Church documents, and select Church councils, will be identified, explored, and analyzed. This course is in conformity with the United States Bishops Curriculum Framework Course and fulfills the requirements for core course IV.

During ODD graduating years will take the following course:

THEO 280 Revelation of Jesus Christ Semester 1 0.5 Credit Grades 9-10

The purpose of this course is to give students a general knowledge and appreciation of the Sacred Scriptures. Through their study of the Bible they will come to encounter the living Word of God, Jesus Christ. In this course students will learn about the Bible, authored by God through Inspiration, and its value to people throughout the world. Students will read the Bible and become familiar with the major sections of the Bible and books included in each section, paying particular attention to the Gospels, where they may grow to know and love Jesus Christ more personally. This course is in conformity with the United State Bishops Curriculum Framework and fulfills the requirements for core course I.

THEO Jesus Christ: His Mission and Ministry Semester 2 0.5 Credit Grades 9-10

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. The course discusses what Jesus Christ reveals about God the Trinity as well as what he reveals about human beings, and it challenges students to follow Jesus so as to grow into the people God calls them to be and to achieve eternal life with the 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. This course is in conformity with the United State Bishops Curriculum Framework and fulfills the requirements for core course II.

Juniors and Seniors:

During ODD graduating years will take the following course:

THEO 300 Sacraments Semester 1 0.5 Credit Grade 11-12

The course of Sacraments is organized around the traditional definition of sacrament as defined in the *Catechism of the Catholic Church*- an efficacious sign of grace, instituted by Christ and entrusted to the Church, by which divine life is given to us by the power and work of the Holy Spirit. Students will see who Jesus is revealed in a unique way through the Sacraments, and we will explore concrete ways to understand and more fully participate in them and benefit from their graces. This course is in conformity with the United States Bishops Curriculum Framework Course, and it fulfills the requirements for core course V.

THEO 320 Foundations of Catholic Morality and Social Justice Semester 2 0.5 Credit Grade 11-12

Students enrolled in the Foundations of Catholic Morality will study the essential message of Christ's moral teaching, the importance of love of God and neighbor, and the basics of Catholic Social Teaching. The text is written to cover the "Life of Christ" section of the *Catechism of the Catholic Church*, pulling together the essential steps for living a Christian moral life in the Catholic tradition. This course is in conformity with the United States Bishops Curriculum Framework Course, and it fulfills the requirements for core course VI.

During EVEN graduating years will take the following courses:

THEO 400 Exploring World Religions Semester 1 0.5 Credit Grade 11-12

In Exploring Religions of the World, students will begin the course with the reading of the Church document *Nostra Aetate*, the Declaration on the Relation of the Church to Non-Christian Religions. We will build on their understanding and experience of the Catholic faith by studying different religious traditions, beginning with a study of Judeo-Christian history, practice and tradition before expanding into the study of less familiar religions including Islam, Hinduism, Buddhism, Taoism and other practices originating in China and Japan. We will also explore faiths that sprang from America's Protestant roots, such as the Church of Jesus Christ of Latter Day Saints, the Amish, the Church of Christ, Scientists and will address Scientology. The text was written in conformity with the United States Bishops Curriculum Framework Course and follows Elective course E: *Ecumenical and Interreligious Issues*.

THEO 420 Catholic Vocation and Mission Semester 2 0.5 Credit Grade 11-12

This course explores with greater emphasis the universal call to holiness and living life as a Catholic Christian in the modern world. In addition to other articles, we will read *The Screwtape Letters*, by C.S. Lewis and discuss the hurdles we all face in living out our faith. Many activities will be reflective in nature, encouraging an in-depth consideration of the questions, "What kind of person am I becoming?" and "What kind of person do I want to become?" Time for prayer and for service will be provided, as well as reflection on the Spiritual and Corporal Works of Mercy. Each student will be involved in a service project in addition to the required service hours. This course is in conformity with the United States Bishops Curriculum Framework Course Elective Option C, Living as a Disciple of Christ Jesus in Society.

ENGLISH

| | | | |
|------------------|-------------------|-------------------|---|
| Freshman | Sophomore | Junior | Senior |
| English 9 | English 10 | English 11 | English 12 |
| Honors English 9 | Honors English 10 | Honors English 11 | Dual Credit College Composition 101 College Composition 102 |

All students are required to take one full year of English each year. Students must earn 4.0 credits during grades 9-12.

ENG 100 English 9 Full Year 1.0 Credit Grade 9

This course will engage students in the careful reading and critical analysis of imaginative literature and nonfiction texts at or above grade level, with a focus on introductory literature. The course is divided into units that explore an essential question examining different aspects of human nature and philosophies. As students explore these ideas, they will develop reading, writing, language, speaking and listening skills. Students will be expected to learn in a whole group, small group, and individual environments.

ENG 121 Honors English 9 Full Year 1.0 Credit Grade 9

Prerequisites: B+ or higher in previous English courses, qualifying assessment, teacher approval

All students will be enrolled in English 9. In order to receive the honors designation, students will be required to complete additional assignments provided to them by the instructor and must complete all of the expected work. A grade of a B- or higher is required to receive the honors designation and bonus points.

This course will engage students in the careful reading and critical analysis of imaginative literature and nonfiction texts at or above grade level, with a focus on introductory literature. The course is divided into units that explore an essential question examining different aspects of human nature and philosophies. As students explore these ideas, they will develop reading, writing, language, speaking and listening skills. Students will be expected to learn in a whole group, small group, and individual environments. The course includes all coursework from English 10, along with additional reading and writing assignments.

ENG 310 Honors English 11 Full Year 1.0 Credit Grade 11
Prerequisites: B+ or higher in previous English courses, qualifying assessment for first time honors students, teacher approval

All students will be enrolled in English 11. In order to receive the honors designation, students will be required to complete additional assignments provided to them by the instructor and must complete all of the expected work. A grade of a B- or higher is required to receive the honors designation and bonus points.

This course will engage students in the careful reading and critical analysis of imaginative literature and nonfiction texts at or above grade level, with a focus on American Literature. The course is divided into units that explore an essential question examining different aspects of human nature and philosophies. As students explore these ideas, they will develop reading, writing, language, speaking and listening skills. Students will be expected to learn in a whole group, small group, and individual environments.

ENG 400 English 12 Full Year 1.0 Credit Grade 12

This course will engage students in the careful reading and critical analysis of imaginative literature and nonfiction texts at or above grade level, with a focus on British Literature. The course is divided into units that explore an essential question examining different aspects of human nature and philosophies. As students explore these ideas, they will develop reading, writing, language, speaking and listening skills. The course will work toward improving reading and writing skills for all seniors and provide college-bound students the opportunity to read books on recommended college reading lists..

ENG 501 College Composition I Semester 1 0.5 Credit Grade 12
Prerequisite: 18 ACT English subscore and teacher approval

This online Dual Enrollment Course through Missouri Southern State University provides an introduction to the principles of college-level writing and critical thinking. Students will write a number of essays for a variety of purposes and audiences. This course is classified as a writing intensive course.

Upon successful completion of this course, students will earn 3 college credit hours for ENG 0101, a course that serves as an introduction to collegiate-level writing. Students are expected to follow the university syllabus and complete all course work through MSSU's online platform. Outside writing, reading, and grammar practice may be required through McAuley to help build communication skills.

ENG 441 College Composition II Semester 2 0.5 Credit Grade 12
Prerequisite: English 101

This online Dual Enrollment Course through Missouri Southern State University in which there is a continued development of writing skills which emphasizes writing from source. Students will initiate, develop, and complete a research paper. This course is classified as writing intensive.

Upon successful completion of this course, students will earn 3 college credit hours for ENG 0102. Students are expected to follow the university syllabus and complete all course work through MSSU's online platform. Outside writing, reading, and grammar practice may be required through McAuley to help build communication skills.

MATHEMATICS

| Freshman | Sophomore | Junior | Senior |
|-------------------------|------------------|---------------------------------------|---------------------------------------|
| Algebra 1 or Algebra 1A | Algebra IB | Geometry | Algebra II |
| Geometry | Geometry | Algebra II | Pre-Calculus |
| | Algebra II | Pre-Calculus | College Algebra or DC College Algebra |
| | | College Algebra or DC College Algebra | Calculus or DC Calculus |
| | | Calculus or DC Calculus | DC Elementary Statistics |
| | | | DC Contemporary Mathematics |

Students will be placed in courses based on assessments/teacher recommendation. Students must earn 3.0 credits during grades 9-12.

Students will be placed in 9th Grade math by analysis of diagnostic testing and teacher recommendation. If a student takes Algebra 1A and Algebra 1B it will count as two years of math credit for high school but is only recognized as 1 year of math credit for college admission.

MATH 100 Algebra I Full Year 1.0 Credit Grade 9-10

This is the foundation for all future secondary mathematics courses. Areas covered include basic operations with numbers, linear and quadratic equations, system of equations with two variables, uniform motion and mixture problems, lines, surface area, volume, probability, rational expressions, rational equations, factoring, and radical expressions.

MATH 110 Algebra IA Full Year 1.0 Credit Grade 9-10

Algebra 1A is the first of a two year sequence of Algebra I. Algebra 1 is an intensive curriculum that moves at a very fast pace. This two year sequence allows students to gain a deeper understanding of the topics presented in Algebra 1 which creates a strong foundation for Geometry and Algebra II. Topics include real number systems, solving linear equations and inequalities, graphing linear equations and inequalities, writing linear equations and data analysis.

| | | | | |
|-----------------|------------------------------|------------------------|---------------------------------|-----------------|
| MATH 501 | Calculus | Full Year | 1.0 H.S. Credit | Grade 12 |
| | Dual Credit(MATH 510) | Spring Semester | 5.0 college credit hours | |

Prerequisites: Successful completion of a Pre-Calculus course and faculty approval.
 Dual Credit: Completion of Math 140 (or Math 130 or 135) with a grade of ‘C’ or higher OR a Math ACT score of 27 (or higher).

Limits, differentiation, and integration of algebraic and transcendental functions as well as the application of these concepts to real world situations. *Students desiring to earn college credit will be required to pay for all tuition and fees.*

| | | | | |
|-----------------|-------------------------------|----------------------|------------------------|-----------------|
| MATH 531 | Elementary Statistics | Semester 1 | 0.5 H.S. Credit | Grade 12 |
| | Dual Credit (MATH 534) | Fall Semester | 3 college hours | |

Prerequisites: Successful completion of an Algebra II course and faculty approval.
 Dual Credit: Completion of Math 120 with a grade of ‘C’ or better

Provides a basic statistical background for the various majors for advanced study in their specialties. Topics to be covered include data summary, measures of central tendency and variation, linear regression, and hypothesis testing with applications to health, social, managerial, biological and physical sciences. This course satisfies the general education requirements in mathematics. *Students desiring to earn college credit will be required to pay for all tuition and fees which includes a \$5.00 Mathematics Program Charge*

| | | | | |
|-----------------|-------------------------------|------------------------|------------------------|-----------------|
| MATH 532 | Contemporary Math | Semester 2 | 0.5 H.S. Credit | Grade 12 |
| | Dual Credit (Math 125) | Spring Semester | 3 college hours | |

Prerequisites: Successful completion of an Algebra II course and faculty approval.
 For dual credit: A Math ACT score of 19 (or higher)

A quantitative reasoning course for students in the liberal arts, focusing on applications of mathematics to social issues in our world. Contains the study of providing urban services, making social choices, constructing fair voting systems, and planning the fair division of resources. *Students desiring to earn college credit will be required to pay for all tuition and fees.*

SCIENCE

*All students must earn 3.0 science credits during 9-12 grades.
This must include the successful completion of Biology*

| Freshman | Sophomore | Junior | Senior |
|------------------|--------------------|--|--|
| Physical Science | Biology (Required) | Chemistry | Chemistry |
| | Chemistry | Physics | Physics |
| | | Advanced General Biology and General Biology Dual Credit | Advanced General Biology and General Biology Dual Credit |

SCI 110 Physical Science **Full Year 1.0 Credit Grade 9**

This course is designed to serve as a foundation for other high school courses, especially chemistry and physics. Physics units include Newton’s 3 laws of motion, forces, scientific definitions of work and power, momentum, conservation and conversions of energy, relationships between electricity and magnetism, and wave phenomena and behavior (including characteristics and calculations) including electromagnetic and sound waves. Chemistry units include composition and classification of matter, history of atomic structure up to present day model, learning the periodic table to include, but not limited to: all chemical symbols, patterns, trends and isotopes, chemical bonding, compound naming, and chemical reactions.

SCI 210 Biology **Full Year 1.0 Credit Grade 10**

This course includes laboratory work, study of specimens, projects, and a thorough understanding of scientific inquiry. Course content encompasses interrelationships of living things, levels of biological organization, cellular biology, biochemistry, genetics, and evolution. Students should be prepared to conduct projects and write a formal lab report. Instruction centers around inquiry based learning that is incorporated into class activities. Learning activities include teacher-lead instruction, group work, student seatwork, project-based learning, and lab exercises with both student-choice and teacher-choice grouping.

SCI 300 Chemistry **Full Year 1.0 Credit Grade 10-12**
Prerequisite: Successful completion of Algebra I

This course is a study of the basic laws of chemistry, covering the common elements of the periodic system, their structure, interactions, and energy relationships. The course is accompanied by work in the mathematical solution of chemical problems, and laboratory use of experimental data. This course is especially important for students planning on attending college in a scientific or health-related field of study. The design of this course is intended to help students prepare for the rigors of lab-science courses that may be encountered in college. A high level of understanding in mathematical problem solving and the scientific methods is necessary for success in this course.

SOCIAL STUDIES

Students must earn 3.0 social studies credits during grades 9-12.

Must include 1 year of U.S. History; 1 year of World History; and a semester (½ credit) of Government, and a social studies elective (½ credit).

| Freshman | Sophomore | Junior | Senior |
|--|--|--|--|
| <u>Even Grad Years</u> United States History or AP United States History | <u>Even Grad Years</u> United States History or AP United States History | American Government Personal Finance | American Government Personal Finance |
| <u>Odd Grad Years</u> World History | <u>Odd Grad Years</u> World History | Dual Credit Intro to Sociology or General Psychology | Dual Credit Intro to Sociology or General Psychology |

- ALL students in Grades 9-10 during EVEN graduating years will take one of the following courses:*

SS 200 United States History Full Year 1.0 Credit Grade 9-10
 Students will continue to use skills of historical and geographical analysis as they examine United States history since 1877. Students will continue to learn fundamental concepts in civics, economics, and geography within the context of United States history. Political, economic, and social challenges facing the nation reunited after the Civil War will be examined chronologically as students develop an understanding of how the American experience shaped the world political and economic landscape.

- ALL students in Grades 9-10 during ODD graduating years will take one of the following courses:*

SS 220 World History Full Year 1.0 Credit Grade 9-10
 This is a complete course of World History which covers the time periods of world history post c.1450 to contemporary times. The class will study the record man has left in government, science, the arts, and all other aspects of human endeavor.

SS 300 American Government Semester 0.5 Credit Grade 11-12

A passing grade on the Missouri/U.S. Constitution test is required for high school graduation. The focus of this required course is the institutions and political activities of the American government at the national, state, and local levels. While taking this class, the students will pass the United States and Missouri Constitution tests, which are required by the State of Missouri.

SOCIAL STUDIES ELECTIVES:

SS 810 United States History Fall Semester Grade 11-12
1492-1877 (HIST 110) 3 college hours/.5 H.S. Credit

***Prerequisite:* 17 or higher on the ACT Reading section or 15 hours completed with a GPA of 2.5 or higher.**

Survey of the United States from colonial times to 1877. Upon successful completion of this course, students will earn three (3) college credit hours.

SS 820 United States History Spring Semester Grade 11-12
1877 To Present (HIST 120) 3 college hours/.5 H.S. Credit

***Prerequisite:* 17 or higher on the ACT Reading section or 15 hours completed with a GPA of 2.5 or higher.**

Survey of the economic, social, and political development of the United States from 1877 to the present. Upon successful completion of this course, students will earn three (3) college credit hours.

SS 800 Introduction to Sociology Spring Semester Grade 11-12
Dual Enrollment (SOC 110) 3 college hours/.5 H.S. Credit

An introductory course focused on the systematic study of society. Emphasis on major concepts of sociology and the scientific point of view in understanding and explaining human behavior and social phenomena.

SS 825 General Psychology Fall Semester Grade 11-12
Dual Enrollment (PSY 100) 3 college hours/.5 H.S. Credit

Introductory course on the scientific study of behavior and mental processes. Covers research and theories in areas of psychology such as abnormal, social, learning and memory, neuroscience, and development. Upon successful completion of this course, students will earn three (3) hours of college credit.

SS 330 Native American History and Culture 2nd Semester 0.5 Credit Grade 10-12

This course approaches the Native American experience from a sympathetic yet unromantic cultural perspective. Topics include cultural diversity in North America on the eve of European colonization; encounters in different regions of North America with Europeans; the role of slavery in Native American societies and in Indian-European relations; the political and spiritual dimensions of accommodation and resistance to Euro-American expansion in the eighteenth century; Native Americans and the balance of power with France and Great Britain in the era of the American Revolution; the process of Indian Removal and the current state of these tribes in Oklahoma; nineteenth-century struggles on the Great Plains and the continued struggle of Native peoples in the 20th and 21st century. Emphasis will be also placed on the role of the Catholic Missionaries and reservation life.

SS 320 Contemporary Issues 1st Semester 0.5 Credit Grade 10-12

This course will focus on major events that occur, where they occur, and their impact on the world today. Concentrated efforts will be in areas of social studies, news, understanding people, places, environments, and global connections. Analyzing, discussing, debating, and researching will be used to accomplish understanding of the events.

SS 350 Sports and Culture Full Year 1.0 Credits Grade 9-12

This course will study the relationships and interactions between society's values, cultures, and sports. This class will also cover the development of competitive behaviors, understanding attitudes, and the handling of game situations from the athlete's perspectives.

PRACTICAL ARTS

All students must earn 1.0 credit during each year of grades 9-12.

PA 320 Business Leadership I Full Year 1.0 Credit Grade 10-12

This course presents a comprehensive, integrative, and practical focus on leadership and management. It is based upon a framework that analyzes leadership and management at different levels: individual leadership, team leadership, and organizational leadership.

PA 340 Business Law Semester 0.5 Credit Grade 9-12

This course is designed to acquaint students with the basic legal principles relevant to their roles as citizens, consumers, and employees through a mixture of personal, business, and consumer law. The content includes the basic characteristics of the American system of free enterprise, rights of private property, basic elements of contracts, employer-employee relations, landlords and tenants, individual rights, wills and estates, family and juvenile justice law, and community property. Students also study significant United States Supreme Court cases which have impacted all areas of law.

PA 360 Sports Marketing Full Year 1.0 Credit Grade 10-12

Sports and Entertainment Marketing is a one-credit specialized course designed to offer students an opportunity to gain knowledge and develop skills related to the growing sports and entertainment industry. Sports Marketing addresses such diverse products as the sporting event itself, its athletes, sports facilities or locations, sporting goods, personal training, and sports information. Entertainment Marketing includes events such as fairs, concerts, trade shows, festivals, plays, product launches, and causes

PA 380 Multimedia Semester 0.5 Credit Grade 9-12

This course is designed to provide a basic understanding of computer concepts and applications. Topics will include essential concepts of computers, the internet, software basics, multimedia, files and storage, ethics, safety and current trends. The students will learn applications for word processing, spreadsheets, file organization, and presentation graphics in the Microsoft environment using Word, Excel and Powerpoint. Skills taught in this course should prepare each student for efficient preparation of high school documents and presentations across the curriculum. Students will also be introduced to Audacity, Moviemaker, Animation, Prezi, OneDrive, and Outlook.

PA 400 Business Leadership II Full Year 1.0 Credit Grade 11-12
Prerequisite: Business Leadership I

This course is a continuation and extension of Business Leadership I.

PA 420 Yearbook Full Year 1.0 Credit Grade 10-12

Yearbook students are responsible for the finances, production, and distribution of the McAuley High School yearbook.

PA 450 Culinary Management Full Year 1.0 Credit Grade 9-12

Can you cook? If not, you will want to take this course! You will be assisting in the planning, preparation and delivery of the school meals to your classmates. Working with the teacher, you will determine the menu for each month. On the days that we offer “in-house catering”, you will prepare the food that is served! This class will offer you real life skills that will enable you to be able to cook a variety of meals when you are leaving independently. Due to the size of the kitchen area, class enrollment is limited! (This course may be repeated for elective credit.)

FINE ARTS

All students must earn 1.0 credit during grades 9-12.

FA300 Art 1 Full Year 1.0 Credit Grade 9-12

This course provides an introduction to art through a mixed media experience. Students will learn and apply the elements and principles of design to produce creative art projects that will explore the use of various art mediums, two-dimensional, and three-dimensional drawings as well as an introduction to ceramics. This course is for all students no matter the level of artistic ability.

FA 310 Art 2 Full Year 1.0 Credit Grade 10-12

This course is designed to build on the art skills that were obtained in Art 1. The goal is to enhance the student's art skills focusing on observational and real life artworks. Art 2 will continue to experience a variety of media including drawing, painting, printmaking, mixed media, 2 dimensional and 3 dimensional art as well as ceramics.

FA 330 Ceramics Full Year 1.0 Credit Grade 9-12

This course in ceramics covers the three basic methods of hand building as well as beginning potters wheel. Students will learn the basic vocabulary of ceramics as well as methods of surface treatment, firing, and other related aspects. Art history, aesthetics and art criticism will be incorporated throughout the course.

FA 380 Theatre I Full Year 1.0 Credit Grade 9-12

This beginning Theatre 1 class will introduce the student to the basics of theatre and theatre as a living art form. Students will learn acting technique, memorization, monologues, partner and group scene work, theatre history and design, production management, marketing and musical theatre. Students will be required to see two (2) live theatre productions that semester and participate in the Ozark 8 One-Act and Readers Theatre competition at Crowder College. Participation in the school play(s) is encouraged.

ELE 630 Renaissance Catholic Art Semester 0.5 Credit Grade 9-12

In this course, students will study the influence of the Catholic faith on art during the Renaissance period and apply techniques they learned to creating their own pieces of artwork.

ELE 635 Modern Catholic Art Semester 0.5 Credit Grade 9-12

In this course, students will study the influence of the Catholic faith on modern art and apply techniques they learned to creating their own pieces of artwork.

FOREIGN LANGUAGES

All students must earn 2.0 credits during grades 9-12

FL 100 Spanish I Full Year 1.0 Credit Grade 9-11

Spanish I introduces students to the Spanish language and Hispanic culture. The focus is on oral communication in the target language using basic vocabulary and grammar. This includes the ability to read, write, listen and speak at the novice level. The course covers present tense regular and some irregular verbs. Also covered are major parts of speech including nouns, verbs, adjective agreement, prepositions and asking and answering questions in Spanish. Cultural concepts are incorporated through target language music, videos, art, crafts, games and readings. The class requires participation in oral and written exercises, paired and group work. Spanish will be used for some classroom instruction and interaction. Assessments are both formal and performance based.

FL 200 Spanish II Full Year 1.0 Credit Grade 9-12

Prerequisite: Successful completion of Spanish I

Spanish II begins with a review of the material covered in Spanish I. Vocabulary and grammar will be expanded as students begin to express their own opinions orally and in writing in the target language at the mid-novice to low intermediate level. This course includes extended use of irregular present tense verbs and introduces past tense preterit and imperfect verbs. Students will read, understand, and interpret intermediate level written material on a variety of topics. They will use spoken language to sustain brief conversations at a level comprehensible to native speakers accustomed to non-native speech patterns. Students will continue to experience the Hispanic culture through target language music, videos, art, crafts and games. Spanish will be used as much as possible both in instruction and classroom interaction. Assessments are both formal and performance based.

FL 301 Spanish III Full Year 1.0 Credit Grade 10-12

Prerequisite: Successful completion of Spanish II and teacher approval.

Spanish III is geared to academically motivated students. It continues the development and reinforcement of language skills learned in Spanish I & II. Students will learn and apply high intermediate level vocabulary words, phrases, and expressions to provide and obtain information, express feelings and emotions, and exchange opinions at a level comprehensible to native speakers. The present perfect, future and conditional tenses as well as commands and the subjunctive mood will be introduced. Spanish will be used for classroom instruction and interaction. Emphasis will be on reading, writing and expressing personal opinions verbally. Hispanic culture, literature, art and history will be stressed. Class activities include the use of target language music, videos, art, crafts, and games. Assessments are both formal and performance based.

DUAL CREDIT/DUAL ENROLLMENT CLASSES

What is Dual Credit?

Dual credit enables qualified high school students to take University-level courses taught by qualified high school instructors on McAuley's campus. Students simultaneously receive academic credit for the course from both the high school and MSSU.

What is Dual Enrollment?

Dual enrollment enables qualified high school students to take University-level courses taught by an MSSU Faculty member while simultaneously enrolled in the high school and MSSU. **Dual enrollment opportunities at MSSU will likely be delivered to the student through a distance learning delivery mode (online).** Courses are offered during a learning lab setting on McAuley's campus.

Costs?

Tuition and fees are the responsibility of the parent and student for college credit. Students can be enrolled in classes at McAuley and elect to not receive college credit. Currently each credit hour is 50.00 through Missouri Southern State University. For a 3 hour college course currently the cost is 150.00 plus books.

Responsibilities:

Students are responsible to be aware of all deadlines involving enrollment, tuition payments and the dates that they can add or drop a class without penalty.

Courses taught:

In addition to the classes offered on the campus of McAuley High School, additional classes are offered online. With Administrative approval, students may take online courses on an independent basis. Courses differ each semester and the student will need to meet with the counselor to select a course each semester. It is strongly recommended that if you are attending a college or university in Missouri after graduation you choose classes from the "Core 42" that will transfer to any college or university in Missouri. See the counselor for a current list.

FRANKLIN TECHNICAL CENTER

As a student at McAuley Catholic High School, you are able to attend Franklin Technical Center on the campus of Joplin High School at no additional costs. However, it is only available for students that reside in the Joplin, Webb City, Carl Junction or Sarcoxie school districts as the funding comes from the student's "home district" and only those that are served by Franklin Tech.

Franklin Tech is a 3 hour block every day. Students must have his/her own transportation and are expected to attend FTC daily (unless excused through McAuley's office or FTC's office).

Students will be responsible for additional fees for each class (testing fees) and must join SkillsUSA which requires dues.

Course Offerings:

| TV/AUDIO PRODUCTIONS | Year | 3.0 Credits | Grades 11-12 |
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Students pick three of the following courses:

- Audio Production encompasses basic information about the elements of audio, audio in broadcasting, sound recording, audio broadcasting, sound recording, audio compositing. You will produce multiple podcasts and help create an album in the class. It will be distributed on iTunes and Spotify.
- Broadcasting focuses on journalism elements to TY Productions. The students will produce a weekly newscast that will air online and be shown during Transition called JHS Weekly. The students will also live stream all home football and basketball games to thousands of viewers.
- Film class will examine the production of what it takes to make a film. You will make several films during the year which include feature films, short films, documentaries, music videos, commercials and public service announcements.
- Special Effects and graphics cover the basic techniques of computer graphics, motion graphic design and film compositing. We will work with Adobe After Effects, Blender, Photoshop and Illustrator.
- TV Productions will examine the basics of producing content for television and online videos. The students will produce news stories, music videos and short films. The course will also teach students how to edit video by using Adobe Premiere and how to create special effects in Adobe After Effects. Some of the projects will include animating a Star Wars lightsaber and how to clone themselves.

- Audio engineering is an advanced class geared towards the production of musical works. Students will learn industry techniques for recording, mixing, mastering, and distributing music. This class also covers field recording techniques as well as studio etiquette as it pertains to working with performers and musicians. Students interested in learning more about the music industry or are interested in pursuing a career in audio production would greatly benefit from taking this class. Students can continue to publish their podcasts on iTunes and Spotify. Students will also learn how to do voice over narration for promotional material.

Students are required to join SkillsUSA; dues will be the responsibility of the student.

PA 800 EARLY CHILDHOOD PROFESSIONS I Year 3.0 Credits Grade 11

Students are required to complete the Missouri Department of Health and Senior Services Family Care and Safety Registry and receive a TB skin test before starting the practicum experience. In this program, students will study topics including developmental milestones; educational theorists that have contributed to education; how to create a safe and healthy learning environment; and how to plan and implement lesson plans for children birth to 3rd grade. Students will also learn instructional strategies for guiding students through learning centers such as art, block building, sensory, music, and academic areas (math, handwriting, reading, and science). Students will learn how to apply this information in a classroom setting. Students taking this class will be required to join SkillsUSA and must purchase the proper uniform to be worn in the practicum setting. Dues and uniforms will be the responsibility of the student. A “C” AVERAGE AND 90% ATTENDANCE MUST BE MAINTAINED TO BE ELIGIBLE TO ATTEND PRACTICUM EXPERIENCES.

PA 900 EARLY CHILDHOOD PROFESSIONS II Year 3.0 Credits Grade 12

Prerequisite: Early Childhood Professions I

Students are required to complete the Missouri Department of Health and Senior Services Family Care and Safety Registry and receive TB skin test before starting the practicum experience. The course will consist of general classroom activities, career exploration at various practicum sites, and mentor training at a practicum site in their specified area. Upon completion of the program, the student is prepared for an entry-level job in the early childhood field. To attend practicums, students are responsible for having proper uniform, name tag, proper shoes, TB (tuberculosis) test, transportation to and from clinical sites, and registered with the Missouri Department of Health and Senior Services Family Care Safety Registry. Students taking Early Childhood Professions are required to join SkillsUSA. A “C” AVERAGE AND 90% ATTENDANCE MUST BE MAINTAINED TO BE ELIGIBLE TO ATTEND PRACTICUM EXPERIENCES.

Students in both ECP I and II are responsible for the following fees:

- TB Test \$20
- SkillsUSA Membership \$20
- Missouri Family Care Registry \$14
- Uniforms \$25-50

INTRODUCTION TO MEDICAL SCIENCE Year 2.0 Credits Grade 11

Introduction to Medical Science is a program for juniors interested in pursuing a career in a healthcare field. The curriculum is designed to introduce students to the health care delivery system and to provide academic knowledge in anatomy and physiology, medical terminology, communication, infection control, safety, CPR, first aid, vital signs, and a wide range of health career opportunities. Upon successful completion of the junior year program, the student will be able to make an informed choice as to the health career pathway they want to pursue their senior year. Scrubs and proper shoes are required for the program, which will be the responsibility of the student. Students taking Health Science classes are required to join SkillsUSA; dues will be the responsibility of the student. *(This course can be taken on McAuley Campus with permission from the FTC Director though Medical Terminology on Edgenuity).*

CERTIFIED NURSE ASSISTANT Year 3.0 Credits Grade 12
Dual Credit--Crowder College (7 Credit Hours--Must pay tuition to Crowder)

This course is a preparatory course to enable the student to work in a hospital, clinic, nursing home, or home health care setting, providing basic nursing care. This course will introduce the student to the health care delivery system, the health care team, medical observation, documentation and reporting techniques, and patient assessment techniques. The Missouri State Board of Nursing requires students to participate in 75 classroom hours and 100 clinical hours to be eligible to sit for the CNA certification. Upon completion of the CNA certification, students will get CPR certified and then have the option of working towards their Phlebotomy certification or job shadow at various health care facilities. To be accepted into the course the student must have 90% attendance for the previous year, a GPA of at least 2.5, and no disciplinary issues. The course is limited to 15 students per class and admission is extremely competitive. Students who have high grades and good attendance will be accepted first. Students must also participate in the JHS Drug Testing Program. Submit to a background check through the Family Care Safety Registry, which requires the individual to have and submit a copy of their social security card. If students elect, the CNA course is eligible for dual credit through Crowder College. They have the potential to earn 7 credit hours. The optional college course fee is currently \$60 per credit hour. Subject to change.

Students are responsible for the following fees:

- TB Test \$20
- SkillsUSA Membership \$20
- Missouri Health Care Registry \$1
- 4 Gait Belt \$10
- 2 Pairs of Scrubs-\$30 per set
- Students must also have a wrist watch with a second hand and tennis shoes to participate in clinical.

CERTIFIED VETERINARY ASSISTANT Year 2.0 Credits Grade 11-12
Prerequisite: Instructor Approval

This course covers basic veterinary knowledge with a skill set that prepares the student to assist a veterinarian. The course covers basic terminology, Zoonotic diseases, lab skills, sample collection, basic care for animals, breed identification (small and large), surgical instrument identification, surgical prep, drug administration, and professional conduct. Students taking Natural Resources classes are required to join FFA; dues will be the responsibility of the student.

GREENHOUSE/LANDSCAPE I & II Year 2.0 Credits Grade 11-12
Dual Credit Missouri State University 1 Credit per semester (Must pay tuition to MSU)
Articulated College Credit Crowder College 6 hours OR O.T.C. 8 hours
Prerequisite: Instructor Approval.

Greenhouse/Landscape Management is a two-hour, two-year course. Course work alternates every other year, even years- landscape, odd years-greenhouse. Students in the greenhouse rotation develop the basic understanding of plant science, production of plants, identification of plants as well as greenhouse management techniques including energy management, construction, asexual and sexual propagation, growing of and marketing of the product. In the Landscape rotation students apply theory of landscape design to actual projects. Site analysis, design, plant selection and installation of new landscapes and turf are covered. This course prepares the student for a career pathway into horticulture or continuing education. The Joplin FFA is an Associate member of Missouri Nursery & Landscape Association. Students taking Natural Resource classes are required to join FFA; dues will be the responsibility of the student.

AUTOMATED MANUFACTURING I **Year** **3.0 Credits** **Grade 11**
Prerequisite: Grade level math completed or taken concurrently.

This program is directed towards an AAS degree in Automated Manufacturing at Crowder College utilizing the FTC manufacturing lab. Instructions will coincide with Crowder Colleges Advanced Manufacturing degree. Areas of instruction include but are not limited to OSHA safety, Precision Milling and Lathe Operations, Blueprint reading, Manufacturing math, Computer Numeric Controls, and operations in the metals, plastics, and wood technology industries, material handling and moving equipment operations. Students will receive high school and college credit in this program. Curriculum includes various sources including MSSC (Manufacturing Skills Standards Council), Fesco, Amatrol, and Fanuc Training materials. Students taking this class will be required to join SkillsUSA; dues will be the responsibility of the student.

AUTOMATED MANUFACTURING II **Year** **3.0 Credits** **Grade 12**
Prerequisite: Automated Manufacturing I.

This program is directed towards an AAS degree in Automated Manufacturing at Crowder College utilizing the FTC manufacturing lab. Instructions will coincide with Crowder Colleges Advanced Manufacturing degree. Areas of instruction include but are not limited to Introduction to Virtual Welding, Industrial Electricity, Programmable Logic Controllers, Robotics, Precision Milling and Lathe Operations, Computer Numeric Controls, and operations in the metals, plastics, and wood technology industries, material handling and moving equipment operations. Students will receive high school and college credit in this program. Curriculum includes various sources including MSSC (Manufacturing Skills Standards Council), Fesco, Amatrol, and Fanuc Training materials. Students taking this class will be required to join SkillsUSA; dues will be the responsibility of the student.

AUTO TECH I **Year** **3.0 Credits** **Grades 11-12**

A course designed for the automotive student or the practicing automotive technician and is NATEF certified. The first semester is a study of the Automotive Brake Systems and the principles involved in the braking systems of the modern automobile. Instruction is given in the skills needed to diagnose and repair braking systems. Special emphasis is given to hydraulic theory, computerized anti-lock systems and the use and application of modern test equipment in the diagnosis and repair of these systems. Second semester is Automotive Electrical Systems, this is a concentrated course in automotive electrical systems. Included is a review of basic electrical principles. Systems studied include charging, starting, ignition, lighting, and fuel. Emphasis is given to electronic ignition and electronic fuel injection. Practice is provided with

live service and repair in the automotive laboratory. Students will also learn some cross-over skills related to the Diesel industry, students will apply these skills in the service and maintenance of medium-and heavy-duty trucks and other diesel-powered equipment including farm and construction equipment. Students can also earn their Sp2 safety certification. Students taking this class will be required to join SkillsUSA; dues will be the responsibility of the student as well as required work boots and coveralls. Students will have the opportunity to take the NATEF certification exam for these respective areas.

AUTO TECH II **Year** **3.0 Credits** **Grades 11-12**
Prerequisite: Auto Technology I

A course designed for the automotive technology student or the practicing automotive technician and is NATEF certified. The first semester is a study in Computerized Engine Control and the principles of computerized engine control. The course will help the student/technician to grasp the operation, diagnosis and repair of these complicated systems. The use and application of modern test equipment are taught in relation to their use in the diagnosis and repair of these systems. Second Semester is Automotive Suspension and Steering. This class is a study of the principles involved in the steering and suspension mechanisms of the modern automobile. Instruction is given in the skills needed to diagnose and repair steering and suspension components, replace steering and suspension system components and alignment of the wheels. The application of modern equipment is taught in relation to its use in the repair of these systems. Students will also learn some cross-over skills related to the Diesel industry, students will apply these skills in the service and maintenance of medium-and heavy-duty trucks and other diesel-powered equipment including farm and construction equipment. Students taking this class will be required to join SkillsUSA; dues will be the responsibility of the student as well as required work boots and coveralls. Students will have the opportunity to take the NATEF certification exam for these respective areas.

COLLISION REPAIR I **Year** **3.0 Credits** **Grades 11-12**

This course serves as an introduction to collision repair and incorporates selected topics from each of the three broad areas of non-structural repair, structural repair, and painting/refinishing. Students become familiar with safe practices in the shop as well as the various tools and equipment used in the trade including lifting, measuring, cleaning, and finishing devices. Steel straightening, damage analysis, and the preparation of customer estimates are also covered. Second semester continues by extending damage analysis/repair coverage to frontal impact and interior damage, exterior trim/hardware repairs, use of plastic adhesives, and advanced measurement systems. Classes are built around learning modules licensed from I-CAR (Inter-Industry Conference on Auto Collision Repair) which include both classroom and

focus will be on the PC Pro Certification. Students taking this class will be required to join SkillsUSA; dues will be the responsibility of the student.

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| CONSTRUCTION I | Year | 3.0 Credits | Grades 11-12 |
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This course is part of NCCER's (National Center for Construction Education and Research) and provides students with the knowledge and skills needed for employment as a carpenter. Study includes residential and commercial construction, with all phases explored and applied on a job site or in the lab. Specialized coursework includes drywall installation and finishing, blueprint reading, construction estimating, concrete, and construction materials. Students can also earn their 10-hour OSHA safety card. Students are required to provide their own work clothes and boots. Students taking this class will be required to join SkillsUSA; dues will be the responsibility of the student.

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| CONSTRUCTION II | Year | 3.0 Credits | Grade 12 |
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Prerequisite: Construction I

This class is encouraged to serve as team leaders for the construction "crew" of students in the Intro class. Students taking this class may have the opportunity to work in the construction industry during the summer between classes. Also covered is an introduction to the electrical trade, safety, basic circuits/theory, plus introduction to NCE (National Electrical Code), device boxes and conduit bending/installation. Other topics covered in this portion include an introduction to the plumbing profession, safety practices, plumbing tools/math/drawings, and working with plastic pipe and fittings. Internship opportunities in commercial construction may be available during the final quarter of this program. Students are required to provide their own work clothes and boots. Students taking this class will be required to join SkillsUSA; dues will be the responsibility of the student.

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| CULINARY CULINARY I | Year | 3.0 Credits | Grades 11-12 |
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Articulated College Credit- Ozark Technical College

Culinary Arts I is the first of two culinary classes offered at Franklin Technology Center. The class meets in a three-hour block and offers three units of credit. Culinary Arts I is an introductory course that starts students in their pursuit of a career in the field of Culinary Arts. They receive training on commercial grade kitchen equipment. They are trained in kitchen sanitation and safety. They learn the basic techniques in both cooking and baking. The students get acquainted with working in a professional kitchen environment. Students work with the community through many community service projects that provide food for many events. After they complete Culinary Arts I they are ready to continue into Culinary Arts II to pursue their

Culinary Arts Certificate. Students taking this class will be required to join SkillsUSA; dues will be the responsibility of the student.

CULINARY II

Year 3.0 Credits

Grades 11-12

Prerequisite: Culinary Arts I

Articulated College Credit- Ozark Technical College

Culinary Arts II is the second of two Culinary classes offered at Franklin Technology Center. The class meets in a three - hour block and offers three units of credit. The students in Culinary Arts II take the skills they learned in Culinary Arts I and use the skills to master more challenging techniques in both culinary and baking areas. They work with many different types of foods to develop the necessary skills in preparation and presentation techniques. The students also work with the community at several catering events through-out the year. Upon completion of both Culinary Arts I and Culinary Arts II the student will be able to earn a Certificate of Completion that will help them go into an introductory job in food service or pursue a degree in Culinary Arts or Baking. The student will obtain the necessary skills for continued growth in a world of accelerated change in a competitive world market. Students taking this class will be required to join SkillsUSA; dues will be the responsibility of the student.

ENGINEERING GRAPHICS I

Year 2.0 Credits

Grade 11

Prerequisite: Algebra 1 is required Geometry is HIGHLY RECOMMENDED (can be taken concurrently)

Dual Credit Crowder College (6 Credit hours--must pay tuition to Crowder)

This is a basic introductory course in the fundamentals of engineering drawing. This course is designed to build a strong foundation in the practices and principles of engineering drawings that includes: routine engineering and drafting department customs, standard engineering and drafting terminology, use and care of drawing equipment, instruments and materials, the alphabet of lines conventions, the use of various measures (scales), and freehand sketching and lettering. The student gains practical experience in geometric construction, size and shape description, orthographic projection methods, dimensioning, basic industrial manufacturing processes, and reproductions processes. Students will be exposed to mechanical, architectural and civil engineering drawing requirements. In addition, computer-aided engineering drawing and design are introduced in this course work. Students taking this class are required to join SkillsUSA; dues will be the responsibility of the student. Articulated Credit with Ozark Technical College. American Drafting and Design (ADDA) Industry Recognized Credential may be earned after successful completion of the second course.

ENGINEERING GRAPHICS II--Architecture Year 2.0 Credits Grade 12

Prerequisite: Engineering Graphics I

Dual Credit Crowder College (6 Credit hours--must pay tuition to Crowder)

Introduction to residential and commercial architectural design and drafting. Course includes both residential and commercial construction materials and methods, building codes, site selection, home styles, foundation plan, floor plan, electrical and plumbing plans, roof plan, elevations and wall sections, framing, stairs, architectural dimensioning and notations, window and door schedules, energy efficiency and community considerations. An emphasis will be placed on design. A complete drawing set will be produced using CADD. In addition, computer-aided drawing and design and 3-D modeling are introduced in this course work. Students taking this class are required to join SkillsUSA; dues will be the responsibility of the student. Articulated Credit with Ozark Technical College. American Drafting and Design (ADDA) Industry Recognized Credential may be earned after successful completion of the second course.

ENGINEERING GRAPHICS II - Mechanical Year 2.0 Credits Grade 12

Prerequisite: Engineering Graphics I.

Dual Credit Crowder College (6 Credit hours--must pay tuition to Crowder)

This is a basic introductory course in the fundamentals of engineering drawing. This course is designed to build a strong foundation in the practices and principles of mechanical engineering drawing that includes: Engineering and Design Process, routine engineering and drafting department customs, standard engineering and drafting terminology, dimensioning and tolerancing - GD&T, basic welding symbols, basic math-Drafting math-geometry. The student gains practical experience in projection methods, sectional views, auxiliary views, pictorial views, dimensioning, basic industrial manufacturing processes, and reproduction processes. In addition, computer-aided engineering drawing and design and 3-D modeling are introduced in this course work. Students taking this class are required to join SkillsUSA; dues will be the responsibility of the student. Articulated Credit with Ozark Technical College. American Drafting and Design (ADDA) Industry Recognized Credential may be earned after successful completion of the second course.

HEATING, VENTILATION, AIR CONDITIONING & REFRIGERATION (HVAC I)

Year 3.0 Credits Grade 11

Articulated College Credit – Ozarks Technical Community College

This course will prepare the student to enter this occupation as a beginning service apprentice technician. Instructions will include proper use of electric drills, pipe cutters and benders,

acetylene torches and testing devices such as refrigerant gauges and ammeters. Students will learn to install and repair equipment ranging in size from small window air conditioners to domestic refrigerators and commercial refrigeration systems. The program will focus on the installation of new equipment including placing motors, compressors, or absorption equipment evaporators and other components in place following blueprints and design specifications. Students also learn to recover and recycle refrigerant to meet EPA requirements. Franklin Technology Center is an approved EPA training and testing site for VGI clean air certification. Students taking Trade and Technical classes are required to join SkillsUSA; dues will be the responsibility of the student.

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| HVAC II | Year | 3.0 Credits | Grade 12 |
| Prerequisite: HVAC I | Articulated College Credit – Ozarks Technical Community College | | |

This class will allow students to master all hand tools, oxy acetylene torches, propane and testing devices utilized in the field. Students will learn to install & repair equipment ranging from window A/C units to domestic refrigerators and commercial refrigeration systems. Students will also learn to recover and recycle refrigerants to meet EPA requirements. Other electrical topics covered in this portion include raceways/fittings, conductors/ cables, electrical drawings, residential services, and test equipment. Students can also earn their EPA Licensure during this time. Other topics covered in this portion include an introduction to the plumbing profession, safety practices, plumbing tools/math/drawings, and working with plastic pipe and fittings. Students taking this class will be required to join SkillsUSA; dues will be the responsibility of the student.

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| WELDING I | Year | 3.0 Credits | Grade 11 |
| Dual Credit Crowder College (6 Credit hours--must pay tuition to Crowder) | | | |

This course is designed to introduce the student to the basic operation of Shielded Metal Arc Welding-SMAW (“Stick” Welding) formerly known as “Stick” welding or traditional ARC welding, Gas Metal Arc Welding (formerly M.I.G. Welding), Gas Tungsten Arc Welding (formerly T.I.G. Welding) and Thermal Cutting. This course is designed to provide the concepts, procedures, and operational hands-on practice necessary to perform different welding. Students can also earn their 10-hour OSHA safety card. Students are required to provide their own appropriate work clothes, shoes, and eye protection. Students taking this class will be required to join SkillsUSA; dues will be the responsibility of the student.

WELDING II**Year****3.0 Credits****Grade 11****Prerequisite: Welding I**

Dual Credit Crowder College (6 Credit hours--must pay tuition to Crowder)

This course includes Gas Metal Arc Welding-GMAW and is designed to provide the concepts, procedures, and operational hands-on practice necessary to perform gas metal arc welding (GMAW), formerly known as Metal Inert Gas (MIG) welding. Second Semester you will move into Gas Tungsten Arc Welding-GTAW formally known as Tungsten Inert Gas (TIG) welding and Flux Core Arc Welding FCAW. Students are required to provide their own appropriate work clothes, shoes, and eye protection. Students taking this class will be required to join SkillsUSA; dues will be the responsibility of the student.