

# Smithville High School



## 2024-2025 Academic Planning Guide

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# Introduction to Academic Planning

The purpose of this “Academic Planning Guide” is to help students and their parents make decisions related to the selection of courses that meet graduation requirements as well as support the attainment of specific diplomas and post-secondary goals.

The decisions you make in high school, including the selection of courses that support post-secondary goals, will have a great impact upon your chances for success throughout your life. In essence, you are laying the foundation for the accomplishments you experience in life. It is vitally important that you devote appropriate time and thought and seek the guidance of your parents as well as school personnel as you make these decisions. Regardless of which path you choose, the ultimate goal is the same: a successful and satisfying life and career.

Our Counselors will assist you with career exploration and educational planning by utilizing Missouri Connections. This is a program sponsored by the Missouri Department of Elementary and Secondary Education (DESE). Counselors will help students create a Personal Plan of Study, which will serve as the foundation for course selection during enrollment each school year. To learn more about Missouri Connections, visit [www.missouriconnections.org](http://www.missouriconnections.org).

If as you utilize this “Academic Planning Guide”, you find that you need additional information or assistance, the following district personnel can be contacted by calling the following phone numbers:

## **School Counselors**

(816) 532-0405

Ms. Karen Johnson (A-G)

Ms. Pam Weis (H-N)

Mrs. Jennifer Robinson (O-Z)

## **A+ Schools Coordinator**

(816) 532-0405

## Smithville R-II High School Educational Planning

When planning a high school sequence of study and selecting individual courses, it is recommended that students and their parents consider a variety of factors in making those choices, including:

- a) Smithville R-II School District graduation requirements
- b) Their chosen “career path” and related areas of interest
- c) Specific requirements of post-secondary educational institutions they may have interest in attending.

What follows is specific information regarding graduation requirements and course offerings that will assist students and their parents in making educational choices that will contribute to the student’s long-range career and educational success.

# General Diploma Requirements

Smithville High School graduation requirements, as adopted by the Smithville R-II Board of Education on March 15, 1995, and updated June, 2023, are as follows:

Units of Credit	Subjects
4	<b>English Language Arts</b> <i>English Language Arts I, English Language Arts II, English Language Arts III or AP English Language and Composition and one additional English Language Arts elective credit</i>
3	<b>Mathematics</b> <i>Algebra I, Geometry, Algebra II, Foundations of Algebra, Math for the Real World, AP Statistics, Math Analysis, College Algebra, College Prep Math, AP Calculus AB, or AP Calculus BC</i>
3	<b>Science</b> <i>Physical Science, Biology, and one additional Science elective credit</i>
3	<b>Social Studies</b> <i>American History; World History; Civics or AP US Government and Politics</i>
1	<b>Fine Art</b>
1	<b>Practical Art</b>
1	<b>Physical Education</b>
.5	<b>Health</b>
.5	<b>Personal Finance</b>
9	<b>Other Electives</b>

Total 26 units of credit and successful completion of the United States Constitution Test, Missouri Constitution Test and speech requirement.

A student must complete all requirements for graduation, which includes completing state End-of-Course Exams for Algebra I, English Language Arts II, Biology and Government to be eligible to participate in the Commencement program.

A combined total of no more than nine (9) units of credit in Art, Music, and Physical Education will apply to the total units of credit required for graduation.

***Students will not be permitted to utilize Credit Recovery for purposes other than making up for classes that have been failed with 41%-59%. This program cannot be utilized to graduate early.***

# Scholastic Diploma Requirements

Smithville High School Scholastic Diploma requirements, as adopted by the Smithville R-II Board of Education on March 15, 1995, and updated June, 2023, are as follows:

Units of Credit	Subject Area
4	<b>English Language Arts</b> <i>English Language Arts I, English Language Arts II, English Language Arts III or AP English Language and Composition, and one additional English Language Arts elective credit from the following: Great Books, YA Contemporary Literature, AP Literature and Composition, or Literature of Social Change</i>
4	<b>Mathematics</b> <i>Algebra I, Geometry, Algebra II, AP Statistics, Math Analysis, College Algebra, Honors Algebra II, College Prep Math, AP Calculus AB, AP Calculus BC</i>
4	<b>Science</b> <i>Physical Science, Biology, Chemistry OR Physics, and one additional Science elective credit</i>
4	<b>Social Studies</b> <i>American History; World History; Civics or AP US Government and Politics; and one additional Social Studies elective credit</i>
1	<b>Fine Art</b>
2	<b>World Language</b>
1	<b>Practical Art</b>
1	<b>Physical Education</b>
.5	<b>Health</b>
.5	<b>Personal Finance</b>
6	<b>Other Electives</b>

28 units of total credit and successful completion of the United States Constitution Test, the Missouri Constitution Test and speech requirement.

A combined total of no more than nine (9) units of credit in Art, Music, and Physical Education may apply to the total units of credit required for graduation. Eight semesters of attendance, after grade eight, are required.

A student must complete all requirements for graduation, which includes completing state End-of-Course Exams for Algebra I, English Language Arts II, Biology and Government to be eligible to participate in the Commencement program.

At least a “B” average (3.0/4.0 G.P.A.) is required.

**Students will not be permitted to utilize Credit Recovery for purposes other than making up for classes that have been failed with 41%-59%. This program cannot be utilized to graduate early.**

## **Special Education Graduation Requirements**

The Smithville R-II Board of Education, when appropriate, may waive specific course requirements for those students who are being actively served under an Individual Education Plan, in accordance with Public Law 94-142. A multi-disciplinary team comprised of the special education teacher, classroom teachers, counselor, parents/guardians, student, and/or the principal shall determine the curriculum for students receiving such services. Eight semesters of attendance and satisfactory progress in a specified curriculum shall be the requirement for graduation.

## Weighted Grades – All AP and Dual Credit classes qualify for Weighted Grades

The following courses qualify for *Weighted Grade Designation*:

<b>English Language Arts</b>	<b>Course Number</b>
AP English Language and Composition	H105A & H105B
AP English Literature and Composition	H104A & H104B
<b>Fine Arts</b>	
Discovering Theatre (Dual Credit)	H729
AP 2D Art	H710A & H710B
AP 3D Art	H711A & H711B
<b>General Electives</b>	<b>Course Number</b>
Cadet Teaching	H1501A & H1501B
<b>Mathematics</b>	<b>Course Number</b>
AP Calculus AB	H209A & H209B
AP Calculus BC	H210A & H210B
AP Statistics	H215A & H215B
College Algebra	H205A & H205B
Math Analysis	H208A & H208B
<b>Practical Arts</b>	<b>Course Number</b>
Business Law	H1112
CAPS: Business Accelerator	H1657 & H1657B
CAPS: Digital Media and Design	H1659 & H1660B
CAPS: Engineering and Advanced Manufacturing	H1656 & H1656B
CAPS: Global Business and Logistics	H1658 & H1658B
CAPS: Medicine and Healthcare	H1654 & 1654B
CAPS: Technology Solutions	H1655 & H1655B
CASE Animal Science	H1003A & H1003B
Civil Engineering and Architecture	H907A & H907B
Introduction to Engineering Design	H900A & H900B
Principles of Engineering	H901A & H901B
<b>Sciences</b>	<b>Course Number</b>
College Physics	H314A & H314B
College Biology	H3010A & H3010B
College Chemistry	H311A & H311B

College Physical Geography	H334A & H334B
Human Body Systems	H338A & H338B
Medical Interventions	H340A & H340B
Principles of Biomedical Science	H335A & H335B
<b>Social Studies</b>	<b>Course Number</b>
AP Comparative Government and Politics	H402
AP Psychology	H420A & H420B
AP United States Government and Politics	H401
AP United States History	H406A & H406B
College World History	H425A & H425B
<b>World Languages</b>	<b>Course Number</b>
AP Spanish Language and Culture	H513A & H513B
French III	H502A & H502B
French IV	H503A & H503B
Spanish III	H506A & H506B
Spanish IV	H507A & H507B

*Weighted courses are also highlighted in the Academic Planning Guide with ~~ after the course name.*

## Advanced Placement and Dual Credit

*College credit is optional (with the exception of College Biology and College Chemistry) and can be attained through AP Exams (\$90) or Dual Credit (cost varies by college).*

<b>English Language Arts</b>	
<u>SHS Course</u>	<u>AP / Dual Credit Course</u>
AP English Language & Composition - H105A & H105B 11th Grade	ENG 110/Writing 1 CRN 57723 Writing & Rhetoric, MO State Univ. (Sem. 1) – 3 credits ENG 210/Writing 2, Writing & Research, MO State Univ. (Sem. 2) – 3 credits
AP English Literature & Composition - H104A & H104B 12th Grade	ENG 200/Intro to Literature, MO State Univ (Sem. 1) – 3 credits ENG 289/Literature, Culture, and Conflict, MO State Univ. (Sem. 2) – 3 credits

<b>Fine Arts</b>	
<u>SHS Course</u>	<u>AP / Dual Credit Course</u>
AP 2D Art – H710A & H710B	Not offered for dual credit; students must earn a 3 or higher on the AP exam to receive college credit
AP 3D Art – H711A & H711B	Not offered for dual credit; students must earn a 3 or higher on the AP exam to receive college credit
Discovering Theatre – H729 9 <sup>th</sup> -12 Grade	THEA 2400, Discovering Theatre, University of Central Missouri – 3 credits

<b>General Electives</b>	
<u>SHS Course</u>	<u>AP / Dual Credit Course</u>
Cadet Teaching – H1501A & H1501B 11 <sup>th</sup> - 12th Grade	EDFL 2100, Intro to Teaching Profession, University of Central Missouri – 3 credits FLDX 2150, Intro to Field Experience, University of Central Missouri – 1 credit

<b>Mathematics</b>	
<u>SHS Course</u>	<u>AP / Dual Credit Course</u>
AP Calculus AB - H209A & H209B 11th – 12th Grade	MATH 198, Analytic Geometry & Calculus I, Truman State University – 5 credits
AP Calculus BC - H210A & H210B 11th – 12th Grade	MATH 263, Analytic Geometry & Calculus II, Truman State University – 4 credits
AP Statistics - H215A & H215B 11 <sup>th</sup> – 12 <sup>th</sup> Grade	STAT 235, Elementary Statistics, UMKC – 3 credits
College Algebra – H205A & H205B 11th – 12th Grade	MATH 156, College Algebra, Truman State University – 3 credits

Math Analysis – H208A & H208B 11th – 12th Grade	MATH 186, Pre-Calculus, Truman State University – 4 credits
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<b>Practical Arts</b>	
<u>SHS Course</u>	<u>AP / Dual Credit Course</u>
CASE Animal Science – H1003A & H1003B 10th-12th Grade	AGS101 Animal Science, Missouri State University – 4 credits
Civil Engineering and Architecture – H907A & H907B 10th –12th Grade	A score of 6 or higher on EOC exam qualifies students to earn college credit through the University of Iowa – 3 credits
Business Law – H1112	Business Law I (FIN53311), NWMSU – 3 credits
Equine Science – H1006A & H1006B 10th – 12th Grade	AGS161 Introduction to Horses, Missouri State University – 3 credits
Introduction to Engineering Design – H900A & H900B 9th – 12th Grade	A score of 6 or higher on EOC exam qualifies students to earn college credit through the University of Iowa – 3 credits
Principles of Engineering – H901A & H901B 10th – 12th Grade	A score of 6 or higher on EOC exam qualifies students to earn college credit through the University of Iowa – 3 credits
Veterinary Science – H1009A & H1009B 10th – 12th Grade	AGR 108 Topics in Agriculture, Missouri State University (Sem 1) – 1 credit AGR 108 Topics in Agriculture, Missouri State University (Sem 2) – 1 credit

<b>Sciences</b>	
<u>SHS Course</u>	<u>AP / Dual Credit Course</u>
College Physics - H312A & H312B 11th-12th Grade	PHY 123, Introduction to Physics I, Missouri State University – 5 credits
College Biology – H3010A & H3010B 12th Grade	BIOL 101, Principles of Biology, Missouri Western State University – 4 credits
College Chemistry – H311A & H311B 12th Grade	CHEM 111, General Chemistry I, Missouri Western State University – 5 credits
College Physical Geography – H334A & H334B 11th – 12th Grade	GRY 142 Introduction to Physical Geography, Missouri State University – 4 credits

## Social Studies

<u>SHS Course</u>	<u>AP / Dual Credit Course</u>
AP Comparative Gov. & Politics - H402 11th – 12th Grade	Not offered for dual credit; students must earn a 3 or higher on the AP exam to receive college credit
AP Psychology - H420A & H420B 11th – 12th Grade	Not offered for dual credit; students must earn a 3 or higher on the AP exam to receive college credit
AP United States Gov. & Politics - H401 11th – 12th Grade	Not offered for dual credit; students must earn a 3 or higher on the AP exam to receive college credit
AP United States History 11th – 12th Grade	HIST 121, American History to 1877, Missouri State University (Sem. 1) – 3 credits HIST 122, American History 1877 to Present, Missouri State University (Sem. 2) – 3 credits
College World History – H425A & H425B 10th - 12th Grade	HIST 103, World History to 1600, Missouri State University (Sem. 1) – 3 credits HIST 104, World History from 1600 to the Present, Missouri State University, (Sem. 2) – 3 credits

## World Languages

<u>SHS Course</u>	<u>AP / Dual Credit Course</u>
AP Spanish Language & Culture - H513A & H513B 12th Grade	SPA 280, Special Intermediate Spanish Topics I, UMKC – 3 credits
French III – H502A & H502B 11th – 12th Grade	FRN 101, Elementary French I, Missouri State University (Sem. 1) – 3 credits FRN 102, Elementary French II, Missouri State University (Sem. 2) – 3 credits
French IV – H503A & H503B 12th Grade	FRN 201, Intermediate French I, Missouri State University (Sem. 1) – 3 credits FRN 202, Intermediate French II, Missouri State University (Sem. 2) – 3 credits
Spanish III – H506A & H506B 10th – 12th Grade	SPN 101 Elementary Spanish I, Missouri State University (Sem. 1) – 3 credits SPN 102 Elementary Spanish II, Missouri State University (Sem. 2) – 3 credits
Spanish IV – H507A & H507B 11th – 12th Grade	SPN 201 Intermediate Spanish I, Missouri State University (Sem. 1) – 3 credits SPN 202 Intermediate Spanish II, Missouri State University (Sem. 2) – 3 credits

# Requirements Matrix

	Smithville Diploma	Smithville Scholastic Diploma	University of Missouri System	Missouri Coordinating Board for Higher Education	Missouri Community / Technical College Military
<b>English Language Arts</b>	4	4	4 One may be Speech/Debate and two may emphasize composition & writing	4	4
<b>Math</b>	3	4	4 (excluding Consumer Math)	3 (excluding Consumer Math)	3
<b>Science</b>	3	4	3 3 from Physical Science, Chemistry, Physics, Earth Science, Animal Science	3 1 must be a Lab Course	3
<b>Social Studies</b>	3.5	4	3	3	3 American History, World History, Civics
<b>Fine Arts</b>	1	1	1	1	1
<b>Practical Arts</b>	1	1	0	1	1
<b>Physical Education</b>	1	1	0	1	1
<b>World Language</b>	0	2	2 Credits of the same language	Strongly Recommended	0
<b>Electives</b>	8.0	5.5	--	7 3 credits from World Language and/or core subject areas	9
<b>Additional</b>	.5 Health .5 Personal Finance .5 Speech	.5 Health .5 Personal Finance .5 Speech	Appropriate class rank & SAT/ACT scores	.5 Health and .5 Personal Finance Truman State University requires 2 yr. World Language	.5 Health and .5 Personal Finance

## Academic Letter Criteria

- The student must be enrolled at Smithville High School by the end of the first quarter of the current year.
- The student must be classified as a freshman, sophomore, junior or senior. They must be enrolled in four courses from the areas of Math, English Language Arts, Social Studies, Science, CAPS (counts as one course), NCC (counts as one course), Project Lead the Way or World Language (III, IV, or V level) and must be enrolled in a total of six courses each semester.
- The student must have maintained an A- average (3.667 GPA) based on an average of S1 and S2 GPA for the current school year.

An Academic Letter will be awarded to those students eligible for an initial Academic Letter. A bar will be awarded after receiving an initial Academic Letter.

Awards will be distributed at graduation for senior students and in the following Fall semester for freshman, sophomore and junior students.

# Smithville Online Learning

As we prepare students for college and career readiness, we believe having the option to take online courses is important for students. details regarding our online learning program can be found below. For specific details regarding course enrollment, please visit with your student's guidance counselor.

## Senate Bill 603

SB 603 was passed in the spring of 2018. It expanded online learning opportunities for students across Missouri. Below are a few key points of the bill:

- Each school district must adopt a policy that creates a process for students to enroll in online courses. This may include consulting with a school counselor.
- The school district will pay for eligible K-12 students to take online courses as long as the student: resides in the Smithville School District, is currently enrolled in the district, and was enrolled full-time in a public school the previous semester. \*\*Exceptions for homeschool students who reside in the district are referenced below in the 'homeschool student section of this document.
- School districts are not required to pay for courses beyond full-time enrollment. Therefore, if a student is already enrolled in seven courses in a semester during the regular year (or two courses during the summer school session), the district is not required to pay for additional courses.
- School districts may determine a student's eligibility to enroll in an online course and can deny enrollment based on 'the best educational interest of the child'. If the parent disagrees with the district's decision, an appeal may be made to the Board of Education.

## Enrollment Procedures

In order to enroll in an online course under the provisions of Senate Bill 603, students must be a resident of the Smithville School District and enrolled in the district. Upon determining that online learning may be an option for a student, parents should contact the school counselor to pursue possible enrollment. A meeting will be scheduled with the student's counselor and administrator where student eligibility will be determined. The school district may deny a student/parent request to enroll in a online course at district cost if one or more of the following is true:

- The student has previously gained the credits provided from the completion of the online course.
- The online course is not capable of generating academic credit.
- The online course is inconsistent with the remaining graduation requirements of the student.
- The student has not completed the prerequisite coursework for the requested online course.
- The student has failed a previous online course(s).
- The course enrollment request does not occur within the same timeliness established by Launch, and/or the school district.

Should a student meet the eligibility expectations and the course requests are aligned to graduation requirements, he/she will be enrolled in the online courses agreed upon.

# Course Offerings

## English Language Arts (ELA)

**COURSE: AP ENGLISH LANGUAGE AND COMPOSITION ~~**

COURSE NUMBER: H105A & H105B

CREDIT: 1 English Language Arts / Dual credit option available

GRADE LEVEL: 11

REQUIRED: No - Fulfills 11<sup>th</sup> Grade English Language Arts requirement

FEE: None

PREREQUISITE: Completion of English Language Arts II with a B- average or better and a 3.0 GPA.

DESCRIPTION: This course cultivates the reading and writing skills that students need for intellectually responsible civic engagement. Students learn to become critical, curious, and responsive readers of diverse texts, and become flexible writers of texts addressed to diverse audiences for diverse purposes. The readings should deepen the understanding of how authors persuade (and manipulate) audiences, thus enriching students' understanding of how texts function rhetorically. Students will apply a framework for persuasive writing to their own original texts and produce evidence-based arguments and analyses over a variety of topics.

*~~ Qualifies for Weighted Grades Designation*

**COURSE: AP ENGLISH LITERATURE AND COMPOSITION ~~**

COURSE NUMBER: H104A & H104B

CREDIT: 1 English Language Arts

GRADE LEVEL: 12

REQUIRED: No

FEE: None

PREREQUISITE: Completion of English Language Arts III or AP English Language and Composition, with a B- average or better and a 3.0 GPA.

DESCRIPTION: This course engages students in the careful reading and critical analysis of 16th-century to modern 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.

*~~ Qualifies for Weighted Grades Designation*

**COURSE: COMPETITIVE DEBATE**

COURSE NUMBER: H144A & H144B

CREDIT: 1 English Language Arts

GRADE LEVEL: 9-12

REQUIRED: No – Fulfills speech requirement

FEE: \$20 one time NSDA membership fee

PREREQUISITE:

DESCRIPTION: This course is a general study of the techniques of interscholastic debate. Students are involved in detailed and extensive analysis of debate theory and technique with the application of skills in competition. Help in guiding and developing novice debaters is an inherent part of the classwork.

Participation in the interscholastic Debate/Forensics program is a requirement. This course may be repeated for additional credit.

**COURSE: COMPETITIVE FORENSICS**

COURSE NUMBER: H145A & H145B

CREDIT: 1 English Language Arts

GRADE LEVEL: 9-12

REQUIRED: No – Fulfills speech requirement

FEE: \$20 one time NSDA membership fee

PREREQUISITE:

DESCRIPTION: This course is a general study of the techniques of interscholastic forensics and individual events. Students explore a variety of performance styles such as humorous and dramatic interpretation, duo improvisation, poetry, prose, storytelling, original oratory, and extemporaneous speaking. Participation in the interscholastic Debate/Forensics program is a requirement. This course may be repeated for additional credit.

**COURSE: ENGLISH LANGUAGE ARTS I**

COURSE NUMBER: H100A & H100B

CREDIT: 1 English Language Arts

GRADE LEVEL: 9

REQUIRED: Yes

FEE: None

PREREQUISITE: None

DESCRIPTION: English Language Arts I students read literature and other complex texts that require students to practice close-reading skills. Students will be challenged to base their assertions and observations on what they've read, using critical thinking, problem solving, and analytical skills. Writing assignments include narrative, informational, reflective, and argumentative approaches. Skills in research, language, speaking, and listening are also assessed.

**COURSE: ENGLISH LANGUAGE ARTS II**

COURSE NUMBER: H101A & H101B

CREDIT: 1 English Language Arts

GRADE LEVEL: 10

REQUIRED: Yes

FEE: None

PREREQUISITE: English Language Arts I

DESCRIPTION: Skills and abilities taught in the ninth grade are continued on a more mature level. Emphasis is placed on expository and research writing, with a continuous review of grammar and usage. Elements of literature are taught through more challenging fiction, nonfiction, poetry and drama.

**COURSE: ENGLISH LANGUAGE ARTS III**

COURSE NUMBER: H140A & H140B

CREDIT: 1 English Language Arts (Fulfills speech requirement)

GRADE LEVEL: 11

REQUIRED: Yes - can also be fulfilled by taking AP English Language Arts

FEE: None

PREREQUISITE: English Language Arts II

DESCRIPTION: This course is designed to meet the needs of all students in making them college and career ready. English Language Arts III continues to expand and reinforce students' skills of analysis, evaluation, and synthesis of literature, writing, word study, and research. The course will reinforce the skills necessary to closely read fiction, drama, poetry and non-fiction related texts. Students in this course are expected to write critically and analytically, integrating the traits of effective writing, including formulating ideas, organization, word choice, voice, sentence fluency, and conventions. Skills in speaking and listening are also assessed. Throughout the year, students will strengthen their reading and writing skills to either enter college or start a career post-high school.

**COURSE: ENGLISH LANGUAGE ARTS IV**

COURSE NUMBER: H148A & H148B

CREDIT: 1 English Language Arts

GRADE LEVEL: 12

REQUIRED: No

FEE: None

PREREQUISITE: English Language Arts III

DESCRIPTION: This course prepares high school seniors for the literacy demands of postsecondary education. Students develop proficiency in expository, analytical, and argumentative reading and writing. They demonstrate processes to read, comprehend, and respond to nonfiction and literary texts. Students will be expected to increase their awareness of the rhetorical strategies employed by authors and to apply those strategies to their own writing. They will read current, relevant texts closely to examine the relationship between an author's argument or theme and his or her audience and purpose, to analyze the impact of structural and rhetorical strategies, and to examine the social, political, and philosophical implications of a text.

**COURSE: GREAT BOOKS (Online)**

COURSE NUMBER: H1000

CREDIT: .5 English Language Arts

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: What makes a book good? What makes a book great? Have you ever wondered why some books make the best seller's list and others do not? This course will study the elements of good novel writing. Students will read and analyze a myriad of texts (including novels deemed classics to current popular reads) to determine the text's greatness. This is a reading intensive course.

**COURSE: LITERATURE AND FILM STUDIES**

COURSE NUMBER: H109

CREDIT: .5 English Language Arts

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: This course is devoted to the advanced study of literary adaptation. Specifically, students explore how filmmakers translate works of literature into moving images through the analysis and application of select film theories. The course will provide students with the tools for critically analyzing film and understanding how film speaks as an artistic or literary form. Additionally, they should be able to think, write, and speak critically about the form, style, and content of those films. Students enrolled in the class will be asked to read literature and view films both inside and outside of the classroom.

**COURSE: LITERATURE OF SOCIAL CHANGE**

COURSE NUMBER: H122A & H122B or H122AO & H122BO

CREDIT: 1 English Language Arts

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: None

METHOD OF INSTRUCTION: In-person or online

DESCRIPTION: This class will involve the reading and studying of important world literature as a tool for social change. Analysis of literary elements as well as critiques of works will be emphasized. Students will be expected to participate in scholarly discussions, write literary analysis, develop projects, and give thematic presentations.

**COURSE: YOUNG ADULT CONTEMPORARY LITERATURE (Online)**

COURSE NUMBER: H1010

CREDIT: .5 English Language Arts

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: In this course, students will read a wide variety of literature that is specifically marketed as “Young Adult” literature. We will read and discuss the ever-changing trends and topics of YA lit and evaluate the writing elements unique to this genre of literature. Students will also study how social trends have impacted YA authors and genres of YA literature. This is a reading intensive course.

## Fine Arts (FA)

### Art

#### **COURSE: ART FOUNDATIONS**

COURSE NUMBER: H700

CREDIT: .5 Fine Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: \$10 for consumables

PREREQUISITE: None

DESCRIPTION: This is the basis for all other art courses and is required for all upper level art courses. Instruction combines Art History, Art Criticism, Aesthetics and Production in cohesive units. In addition, instruction is focused on the Elements of Art and Principles of Design. Students are expected to demonstrate skills in a variety of media and art forms as well as discuss, write, critique and give serious thought to the process of creating artwork interest.

#### **COURSE: AP 2D ART**

COURSE NUMBER: H710A & H710B

CREDIT: 1 Fine Art

GRADE LEVEL: 11 & 12

REQUIRED: No

FEE: \$40 for consumables

PREREQUISITE: Art Foundations and 2D Art

DESCRIPTION: The AP 2D Art class is intended for highly motivated students who are seriously interested in the study of art and design. AP course requirements are significantly more rigorous, and students should demonstrate commitment and accomplishment when enrolled. A high level of technical art skills, creativity, and inquiry are recommended to take this course. During the year, the students will work in and out of class to produce a portfolio to meet the standards set up by the College Board. Students will be expected to complete at least one piece of quality artwork every one or two weeks, complete practice exercises, keep a comprehensive sketchbook, document their ongoing inquiry and thinking processes, and participate in critique sessions. Each student must have a sketchbook with them and be able to develop these sketchbooks as ongoing journals throughout the year. This course emphasizes making art as an ongoing process that involves the student in informed and critical decision making at all times, according to their own individual inquiry. Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year.

*~~ Qualifies for Weighted Grades Designation*

#### **COURSE: AP 3D ART AND DESIGN**

COURSE NUMBER: H711A & H711B

CREDIT: 1 Fine Art

GRADE LEVEL: 11-12

REQUIRED: No

FEE: \$40

PREREQUISITE: Art Foundations and Ceramics or Sculpture

DESCRIPTION: The AP 3D Art class is intended for highly motivated students who are seriously interested in the study of art and design through the **three-dimensional** lens. AP course requirements are significantly more rigorous, and students should demonstrate commitment and accomplishment when enrolled. A high level of technical art skills, creativity, and inquiry are recommended to take this course. During the year, the students will work **in and out** of class to produce a portfolio to meet the standards set up by the College Board. Students will be expected to complete at least one piece of quality **three-dimensional** artwork every one or two weeks, complete practice exercises, keep a comprehensive sketchbook, document their ongoing inquiry and thinking processes, and participate in

critique sessions. Each student must have a sketchbook with them and be able to develop these sketchbooks as ongoing journals throughout the year. This course emphasizes making art as an ongoing process that involves the student in informed and critical decision making at all times, according to their own individual inquiry. Students create a portfolio of work to demonstrate inquiry through art and design and development of materials, processes, and ideas over the course of a year.

~~ Qualifies for Weighted Grades Designation

**COURSE: ART HISTORY**

COURSE NUMBER: H701

CREDIT: .5 Fine Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: Art Foundations

DESCRIPTION: Students enrolled in this semester course will learn art history

**COURSE: CERAMICS**

COURSE NUMBER: H728

CREDIT: .5 Fine Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: \$30 for consumables

PREREQUISITE: Art Foundations

DESCRIPTION: This course offers an introduction to hand building and wheel-thrown ceramic methods. Hand building techniques include pinch, slab, coil, drape and extruded forms. The elements of art and principles of design are stressed as they are applied to form and surface decoration. Students will learn how to finish their pieces with various types of glaze and firing techniques. Historical and present cultural references will be explored as they pertain to functional and non-functional wares.

**COURSE: CERAMICS STUDIO ASSISTANT**

COURSE NUMBER: H727

CREDIT: .5 General Elective

GRADE LEVEL: 10-12

REQUIRED: NO

FEE: \$20

PREREQUISITE: Art Foundations and Ceramics

DESCRIPTION: The job of Studio Assistant is done for the purpose/s of providing an expanded learning opportunity and real world learning experience for the student and to give support to the instructor by serving as an Assistant with specific responsibilities that aids in the facilitation of effective instructional practices carried out by the Teacher. Studio Assistants collaborate with their peers on their creative process by sharing their experiences on techniques, project ideas, and giving constructive feedback when needed.

**COURSE: SCULPTURE**

COURSE NUMBER: H709

CREDIT: .5 Fine Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: \$20 for consumables

PREREQUISITE: Art Foundations

DESCRIPTION: This semester long course offers in-depth exploration into 3-D art forms through various mediums that may include clay, plaster, fibers, paper, found objects, installations and wood. Projects will be accompanied by a study of the history of sculptures and other 3-D art forms throughout time and cultures. Designs both functional and non-functional will be explored. Students will create individual and

collaborative projects that will challenge size, scale, and functionality. Students will be expected to maintain their digital website portfolio. This course can be repeated.

**COURSE: 2-D ART**

COURSE NUMBER: H616

CREDIT: .5 Fine Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: \$15 for consumables

PREREQUISITE: Art Foundations

DESCRIPTION: This course will be an extensive study in drawing and painting skills working with the Elements of Art and Principles of Design including interpretation of visual properties of form and space, self-expression and stylistic development. Art History, aesthetics and critical thinking are encompassed in the units of study. Each student is expected to participate in critiques both oral and written, as well as create and maintain a sketchbook and portfolio.

## Music

### **COURSE: HIGH SCHOOL BAND (WARRIOR PRIDE MARCHING BAND AND SYMPHONIC BAND)**

COURSE NUMBER: H619A & H619B

CREDIT: 1 Fine Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: Fees are associated with being in band (i.e. marching shoes, concert black tuxedo, and gloves).

PREREQUISITE: Having successfully passed the 6<sup>th</sup>, 7<sup>th</sup>, and 8<sup>th</sup> grade beginning band courses

DESCRIPTION: The members of this ensemble represent the Smithville R-II School District highest instrumental ability through performances throughout the year. Students must be ready to perform at the highest level at all marching and concert band events. The marching band season is during the 1<sup>st</sup> quarter and beginning of the 2<sup>nd</sup> quarter. After marching season ends, a transition to concert band (Symphonic Band) occurs for the remainder of the school year. All students are expected to be at all performances given in the band handbook in August. All band members must be in good academic standing in order to participate in MSHSAA sanctioned events. Course is a full year course only. Only transfer students will be allowed mid-year enrollment. Once a student leaves the program, they will not be allowed to re-enroll.

### **COURSE: JAZZ BAND ENSEMBLE**

COURSE NUMBER: H601A & H601B

CREDIT: 1 Fine Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: Enrolled in Advanced Instrumental Music and in good standing in that ensemble.

DESCRIPTION: The Smithville Jazz Ensemble performs at home concerts, competitive festivals, and our own Evening of Jazz. Jazz Ensemble is an enrichment class for those students who have the desire to expand their performance opportunities. Jazz Ensemble uses standard instrumentation as follows: Alto Sax, Tenor Sax, Bari Sax, Trumpet, Trombone, Guitar, Vibraphone, Piano, Bass, Drums. Rhythm instruments (Guitar, Piano, Bass, Drums) may be excused from the class prerequisite at the discretion of the Director. Students must audition for chair placement in the group, as well as display a minimum playing ability. Auditions will take place during the spring for the following fall semester. Jazz Ensemble is a year-long course; there will be no additions halfway through the academic year unless special circumstances arise. Success in this group depends on a continuous fundamental practice as well as an understanding of basic ensemble musicianship.

### **COURSE: LAKESIDE SINGERS**

COURSE NUMBER: H608A & H608B

CREDIT: 1 Fine Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: Complete audition and selection process and enroll in a section of choir during the spring semester.

DESCRIPTION: Lakeside Singers will explore choral literature from a variety of genre and time periods with special emphasis on **vocal jazz**. The ensemble will focus on music composed or arranged for mixed voices, but may also be split or combined with other ensembles to perform music specific to the treble voices or the bass clef range. Instruction will center on the fundamentals of proper choral singing, music reading skills, overall musicianship, and responsibilities of a choral ensemble member. Students are *required* to perform with the ensemble outside the school day! The ensemble will travel locally and regionally to various festivals.

**COURSE: MIXED CHOIR**

COURSE NUMBER: H607A & H607B

CREDIT: 1 Fine Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: Students will explore literature that is written for mixed ensembles that include music from all time periods. Instruction will center on correct choral singing, including voice placement, tone production, breathing, and vowel formation as well as musical theory and sight reading. Members of this ensemble are required to perform evening concerts as well as travel locally to various festivals and concerts. Depending on enrollment, Mixed Choir may be offered in multiple sections which may be split by gender.

**COURSE: MUSIC APPRECIATION I**

COURSE NUMBER: H603

CREDIT: .5 Fine Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: Students will explore many genres of music throughout history with an emphasis on the evolution of Western Art (Classical) Music. Students will gain a basic understanding of the notation and terms used in the writing and reading of formal music. Students will develop the skills necessary to listen critically and evaluate all kinds of music. Class requirements include participation in classroom activities, attendance at a formal concert or musical performance, and research.

**COURSE: MUSIC APPRECIATION II**

COURSE NUMBER: H604

CREDIT: .5 Fine Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: Music Appreciation II is typically offered in the spring semester as a continuation of Music Appreciation I. It is highly recommended to take I & II sequentially, but it is not mandatory. Music Appreciation II will focus on the history of music with a focus on jazz and classical. Class requirements include participation in classroom activities, attendance at a formal concert or musical performance, and research.

**COURSE: MUSIC THEORY**

COURSE NUMBER: H602A & H602B

CREDIT: 1 Fine Art

GRADE LEVEL: 9-12

REQUIRED: No

LAB FEE: \$15 for lab materials

PREREQUISITE: None

DESCRIPTION: This course will be an introduction to music theory and ear training. Music theory is the understanding, application, and analysis of music notation. In addition to using the symbols of written notation, students will also develop the skills to aurally analyze music and convert what they hear into notation. Students will also be expected to develop the skills needed in order to sing and/or play simple musical examples at sight. Students will gain the necessary knowledge required to compose and arrange simple musical pieces. This class is intended for those students who would like to expand their knowledge and experience in preparation for collegiate-level music theory courses.

**COURSE: TENOR-BASS CHOIR**

COURSE NUMBER: H609A &amp; H609B

CREDIT: 1 Fine Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: \$10 for robe rental and cleaning

PREREQUISITE: Complete audition process

DESCRIPTION: Tenor-Bass Choir is an auditioned ensemble that will focus on music composed or arranged for voices in the bass clef range, but may also be combined with other ensembles to perform music that includes treble voices. Students will explore choral literature from a variety of genres and time periods. Instruction will center on the fundamentals of proper choral singing, music reading skills, overall musicianship, and the responsibilities of a choral ensemble member. Students are required to perform with the ensemble outside the school day! This choir will travel locally to music festivals sponsored by the Missouri State High School Activities Association. Auditions are typically held in January for the following school year.

**COURSE: TREBLE CHOIR**

COURSE NUMBER: H605A &amp; H605B

CREDIT: 1 Fine Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: \$10 for robe rental and cleaning

PREREQUISITE: Complete audition process

DESCRIPTION: Treble Choir is an auditioned ensemble that will focus on music composed or arranged for soprano and alto voices, but may also be combined with other ensembles to perform music that includes voices in the bass clef range. Students will explore choral literature from a variety of genres and time periods. Instruction will center on the fundamentals of proper choral singing, music reading skills, overall musicianship, and the responsibilities of a choral ensemble member. Students are required to perform with the ensemble outside the school day! This choir will travel locally to music festivals sponsored by the Missouri State High School Activities Association. Auditions are typically held in January for the following school year.

## Theatre Arts

**COURSE: DISCOVERING THEATRE (Dual Credit)**

COURSE NUMBER: H729

CREDIT: .5 Fine Arts

GRADE LEVEL: 9-12

FEE: None

PREREQUISITE: None

DESCRIPTION: Students will take a comprehensive look at the form of theatre, covering theatre throughout history and in the present as well as theatre in different cultures in the present and past. Students will also read and analyze a variety of theatrical texts.

*~~ Qualifies for Weighted Grades Designation*

**COURSE: ACTING I**

COURSE NUMBER: H721

CREDIT: .5 Fine Arts

GRADE LEVEL: 9-12

FEE: None

PREREQUISITE: None

DESCRIPTION: This is an introductory theatre course that focuses on the foundations of theatre – the actor, the audience, and the director. Featuring units based around play reading/analysis, storytelling, pantomime, acting, directing, and theatre etiquette. Acting I allows students to study theatre from the perspective of an actor, director, and audience member.

**COURSE: ACTING II (Spring)**

COURSE NUMBER: H722

CREDIT: .5 Fine Arts

GRADE LEVEL: 9-12

FEE: None

PREREQUISITE: Theatre I (or instructor approval)

DESCRIPTION: This is an intermediate theatre course that builds on the principles of Acting I and adds in additional studies over the intricacies of the form. This course will teach more specific concepts including musical theatre, Shakespeare, theatre history and integrating current events in the theatre world, allowing students to see how theatre has evolved over time and in different parts of the world as well as exposing them to opportunities available on and off-stage in the theatre world today.

**COURSE: THEATRE ENSEMBLE**

COURSE NUMBER: H723A & H723B

CREDIT: .5 or 1 Fine Arts

GRADE LEVEL: 11-12

FEE: None

PREREQUISITE: At least a B in ACTING II

DESCRIPTION: This course will be focused on producing performances and advanced studies in acting and theatre performance. Because this course is repeatable for credit, the units of study will change each semester to accommodate and challenge the particular needs of the class. Units may include: solo performance, classical theatre performance, producing a published play, audition techniques, and advanced movement.

This course is repeatable and can be taken as a semester or full year course.

**COURSE: THEATRE PRODUCTION**

COURSE NUMBER: H717A and H717B

CREDIT: .5 or 1 Fine Arts

GRADE LEVEL: 11-12

FEE: None

PREREQUISITE: None

DESCRIPTION: This course is an introduction to technical theatre. The course combines the two main facets of technical theatre: design and production. Students will experience an introductory to multiple forms of theatre including set construction, properties construction, costume construction, lights/sound, etc. Students will also practice design for the areas of scenery, costuming, and lighting. This course is repeatable and can be taken as a semester or full year course.

**COURSE: THEATRE PRODUCTION INTERNSHIP**

COURSE NUMBER: H727A & H727B

CREDIT: .5 or 1 Fine Arts

GRADE LEVEL: 12

FEE: None

PREREQUISITE: Instructor Approval

DESCRIPTION: Advanced technical theatre students will complete self-led projects related to the co-curricular theatre program. Students will experience extremely limited direct instruction and will be tasked with completing projects that directly support the plays and musicals produced at SHS.

# Mathematics (MA)

## Smithville High School Mathematics Course Options

We encourage all students to take four credits of mathematics. Students **must** take four credits to acquire the scholastic diploma. Only three credits are required to graduate.

### For those students who completed 8<sup>th</sup> Grade Math

Freshman Year	Sophomore Year	Junior Year	Senior Year
Algebra I	Geometry	Algebra II	College Prep College Algebra # Math Analysis # AP Statistics #
Algebra I	Geometry & Algebra II ^	Math Analysis # AP Statistics #	AP Calculus I #* AP Statistics #

### For those students who need more support in mathematics

Freshman Year	Sophomore Year	Junior Year	Senior Year
Foundations of Algebra	Algebra I	Geometry Math for the Real World	Algebra II Math for the Real World

### For those students who finished Algebra I in 8<sup>th</sup> grade

Freshman Year	Sophomore Year	Junior Year	Senior Year
Geometry & Algebra II ^	Math Analysis #	AP Calculus I #* AP Statistics #	AP Calculus II # AP Statistics #
Algebra II	Geometry & Math Analysis # ^	AP Calculus I #* AP Statistics #	AP Calculus II # AP Statistics #
Algebra II	Geometry	College Algebra # AP Statistics # Math Analysis #	Math Analysis # AP Statistics # AP Calculus I #*

**Calculators** – Algebra I and Geometry will utilize a TI-30X (scientific calculator), while Algebra II and all college credit math courses will utilize a TI-84 Plus (graphing calculator).

Note: \* - Students must complete Math Analysis prior to taking Calculus I.

^ - To take two courses concurrently will require instructor approval.

# - Students have the opportunity to earn college credit in this course.

## COURSE: ALGEBRA I

COURSE NUMBER: H201A & H201B

CREDIT: 1 Mathematics

GRADE LEVEL: 9

REQUIRED: Yes

FEE: None

PREREQUISITE: none

DESCRIPTION: The Algebra I course deals with symbols, terminology, and the basic structure of the real number system and their application to the solution of problems. In solving these problems, the student will acquire skills in applying algebraic concepts and skills. Graphical representation and the role of deductive reasoning in algebra are stressed.

**COURSE: ALGEBRA II**

COURSE NUMBER: H203A & H203B

CREDIT: 1 Mathematics

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: Algebra I and Geometry. May also be taken concurrently with Geometry with successful Algebra 1 completion ( $\geq$ B- or better)

DESCRIPTION: The purpose of Algebra II is to provide students with a better understanding of how to apply algebra to solve real-world problems. Content and skills addressed in Algebra II include graphing and analyzing linear and nonlinear equations, functions, basic trigonometry, complex numbers, radicals and factoring.

**COURSE: AP CALCULUS AB ~~**

COURSE NUMBER: H209A & H209B

CREDIT: 1 Mathematics / Dual credit option available

GRADE LEVEL: 12

REQUIRED: No

FEE: None

PREREQUISITES: Math Analysis ( $\geq$ B-)

DESCRIPTION: The content of AP Calculus corresponds to the content of a first-year college calculus course with limit theory, differentiation, and integration as its major themes. Graphing calculator technology is incorporated throughout the course.

*~~ Qualifies for Weighted Grades Designation*

**COURSE: AP CALCULUS BC ~~**

COURSE NUMBER: H210A & H210B

CREDIT: 1 Mathematics / Dual credit option available

GRADE LEVEL: 12

REQUIRED: No

FEE: None

PREREQUISITES: AP Calculus AB

DESCRIPTION: AP Calculus BC is a continuation of AP Calculus AB. While reinforcing the major themes of Calculus AB (limits, differentiation, and integration), students will also focus on advanced integration topics, the calculus of parametric and polar functions, sequences, and polynomial approximations and series. Graphing calculator technology is incorporated throughout the course.

*~~ Qualifies for Weighted Grades Designation*

**COURSE: AP STATISTICS ~~**

COURSE NUMBER: H215A & H215B

CREDIT: 1 Mathematics / Dual credit option available

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITES: Algebra II and Geometry; Math G.P.A of 2.5 or higher.

DESCRIPTION: Statistics acquaints students with the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will frequently work on projects involving the hands-on gathering and analysis of real world data. Ideas and computations presented in this course have immediate links and connections to actual events. Computers and calculators will allow students to focus deeply on the concepts involved in statistics.

*~~ Qualifies for Weighted Grades Designation*

**COURSE: COLLEGE ALGEBRA**

COURSE NUMBER: H205A & H205B

CREDIT: 1 Mathematics / Dual credit option available

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITES: Algebra II ( $\geq$ C) and Geometry

DESCRIPTION: The content of College Algebra is that of a traditional college-level algebra course. Topics include linear, quadratic, and miscellaneous equations and inequalities; relations and functions including polynomial, exponential, and logarithmic functions; graphing; systems of equations; and matrices.

*~~ Qualifies for Weighted Grades Designation*

**COURSE: COLLEGE PREPARATORY MATHEMATICS**

COURSE NUMBER: H206A & H206B

CREDIT: 1 Mathematics

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: Algebra II and Geometry

DESCRIPTION: This course is designed to prepare students for success in a College Algebra course (whether taken at SHS or at a college or university). Topics covered will include algebra concepts, ACT exam preparation, and statistics.

**COURSE: FOUNDATIONS OF ALGEBRA**

COURSE NUMBER: H213A & H213B

CREDIT: 1 Mathematics

GRADE LEVEL: 9

REQUIRED: No

FEE: None

PREREQUISITE: Required Teacher Recommendation

DESCRIPTION: This course reinforces and builds upon mathematical skills taught in previous classes with additional advanced computation, including an emphasis on algebraic concepts, problem-solving, and how mathematics interacts with the real world.

**COURSE: GEOMETRY**

COURSE NUMBER: H204A & H204B

CREDIT: 1 Mathematics

GRADE LEVEL: 9-10

REQUIRED: No

FEE: None

PREREQUISITE: Algebra I

DESCRIPTION: Geometry emphasizes and utilizes geometric concepts and facts often proven in a way that creates and develops creative problem-solving skills and logical deductive reasoning. This course provides an excellent foundation for critical thinking needed in future math and science courses.

**COURSE: MATH ANALYSIS**

COURSE NUMBER: H208A & H208B

CREDIT: 1 Mathematics / Dual credit option available

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITES: B- average or higher in both Algebra II and Geometry

DESCRIPTION: Math Analysis is recommended for those students going to college and/or advanced technical careers. The content of Math Analysis includes advanced algebraic concepts, trigonometry, and

probability and statistics. The graphing calculator is required as technology and is utilized throughout the course. Much emphasis is placed on mathematical problem solving

*~~ Qualifies for Weighted Grades Designation*

**COURSE: MATHEMATICS FOR THE REAL WORLD**

COURSE NUMBER: H214A & H214B

CREDIT: 1 Mathematics

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: Algebra I; Instructor Approval

DESCRIPTION: This course begins with basic math review and uses these skills in real-life problem solving. Students will become aware of consumer-related issues and use the mathematics they learn to address issues in their school and in the community. Topics will include computations involving maximizing area and volume, budgeting, taxes, loans, data, and statistics. This course is not for "college-bound" students.

## General Electives (E)

### COURSE: **ACT PREPARATION**

COURSE NUMBER: H15210

CREDIT: .5 General Elective

GRADE LEVEL: 11-12

REQUIRED: No

FEES: \$0

PREREQUISITE: None

METHOD OF DELIVERY: Online

DESCRIPTION: The ACT Preparation course is offered to students looking to improve their content knowledge and test taking strategies in preparation for the ACT exam. Based on a pre-test taken the first day of class, each student will be given an individual plan of study to improve in the areas they have deficiencies. Class time will be utilized for individual and small group work as well as learning general test taking strategies tailored to each subtest of the ACT. The materials for this course are the property of the student.

### COURSE: **CADET TEACHING (Instruction & Internship)**

COURSE NUMBER: H1501A & H1501B

CREDIT: 1.5 General Elective / Dual credit option available

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: Cumulative GPA 3.0 or above. Child Development is highly encouraged to take before or at the same time as Cadet Teaching.

DESCRIPTION: Cadet teaching provides an opportunity for students interested in a teaching career to work with experienced teachers in a classroom setting. The program provides students who possess exemplary interpersonal and leadership skills the insights about teachers and schools so that they might become advocates for education. Internship hours may also be applied to A+ tutoring hours.

*~~ Qualifies for Weighted Grades Designation*

### COURSE: **LEADERSHIP I**

COURSE NUMBER: H1510

CREDIT: .5 General Elective

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: Complete application and selection process

DESCRIPTION: This course offers students the opportunity to examine leadership theory, develop leadership skills, and apply their knowledge and skills through identified projects. The projects will include the planning of school activities in support of both school and surrounding community objectives. The class will cover such topics as understanding various leadership styles; self-awareness and discovery regarding personal leadership style; project organization; personal and project goal-setting; and using different forms of communication to be an effective leader.

### COURSE: **LEADERSHIP II**

COURSE NUMBER: H1514

CREDIT: .5 General Elective

GRADE LEVEL: 11-12

FEE: None

PREREQUISITE: Leadership I

DESCRIPTION: This course will offer further development of a student's understanding regarding leadership styles and theories. In addition, the class will cover such topics as problem-solving skills development; working through and understanding how to resolve conflict in leadership; the team/group process involved in leading; researching the impact of pluralism in groups; learning how to become a process observer and applying continuous improvement skills in leading projects.

**COURSE: OUTDOOR EDUCATION**

COURSE NUMBER: H1503  
CREDIT: .5 General Elective  
GRADE LEVEL: 9-12  
REQUIRED: No  
FEE: None  
PREREQUISITE: None

DESCRIPTION: This semester course is designed to immerse students in diverse adventure pursuits. Students will investigate and explore activities related to outdoor and recreational activities that could be utilized throughout their lifetime. Units could include orienteering, geocaching, hiking, frisbee golf, map reading, outdoor/camp cooking, camping essentials, fishing, hunter education, team building/group dynamics, archery, and any other outdoor education topics.

**COURSE: SCIENCE LAB MANAGER**

COURSE NUMBER: H1523A & H1523B  
CREDIT: .5 General Elective  
GRADE LEVEL: 10-12  
REQUIRED: NO  
FEE: None

PREREQUISITE: Complete application and selection process

DESCRIPTION: The Science Lab Manager course is a hands-on study of laboratory techniques in a science classroom setting. Students will be required to assess skill sets to prepare solutions, agarose gels, prepare for dissections, and other lab activities. In addition to preparing for science labs, the student will provide mentoring for other students. The course also provides students with the opportunity to complete testing through the Bioscience Core Skills Institute to show proficiency in laboratory skills. To be successful in this course, students should have a working knowledge of general laboratory skills and be able to follow procedures outlined by the science teachers. They should also possess a desire to help solve problems, create solutions, and explore new ideas and technologies.

**COURSE: SPORTS MEDICINE / ATHLETIC TRAINING**

COURSE NUMBER: H1504  
CREDIT: .5 General Elective  
GRADE LEVEL: 9-12  
REQUIRED: No  
FEE: None  
PREREQUISITE: None

DESCRIPTION: This course is designed to gain knowledge about sports medicine/athletic training as a profession; including roles of the athletic trainer, the sports medicine and sports medicine team, steps on becoming a certified athletic trainer, and athletic training careers. Students will have the opportunity to pass certification tests for first aid skills and CPR certification. Topics related to the aspects of administration such as legal issues, administration documentation, professional development and PREMIER model for becoming a professional will also be studied. ***Participation in this course requires 10 hours of practical experience working alongside our current athletic trainer in the training room outside of the classroom.*** Course cannot be repeated.

**COURSE: SPORTS MEDICINE / ATHLETIC TRAINING II**

COURSE NUMBER: H1516  
CREDIT: .5 General Elective  
GRADE LEVEL: 10-12  
REQUIRED: No  
FEE: None

PREREQUISITE: Sports Medicine/Athletic Training

DESCRIPTION: This course is designed to gain knowledge about sports medicine/athletic training with a hands-on approach; including recertification in first aid skills and CPR certification. As well as taping, wrapping, simple wound care, emergency procedures, athletic practice management and athletic game management. Students will learn about common fitness, strengthening and flexibility activities for the

purpose of preventing injuries. Students will build rehabilitation and reconditioning programs as it relates to common athletic injuries. On hand student training skills will be advanced and improved throughout the semester. Students will work alongside our current athletic trainer to set up game day facilities, work game day activities, and perform scheduled work field experience hours as outlined in the student athletic training competencies. ***Participation in this course requires 40 hours of practical experience in the training room or at athletic games outside of the classroom.*** Course cannot be repeated.

**COURSE: STUDENT LIBRARY ASSISTANT**

COURSE NUMBER: H1520A & H1520B

CREDIT: 1 General Elective or may be used for A+ tutoring hours for 0 credit

GRADE LEVEL: 11-12

REQUIRED: NO

FEE: None

PREREQUISITE: Complete application and selection process

DESCRIPTION: Juniors or seniors who are selected through an application and interview process with the librarians will be given the opportunity to explore the world of librarianship. Student library assistants will be needed at the high school, upper elementary and primary elementary. Library assistants will be expected to aid with various aspects of the media center and complete assigned projects. Students will gain entry level skills to assist both staff and students in the library. Applicants should have a love of books, be able to work independently, and have an interest in helping others. This course has a limited enrollment. Students assigned to an elementary building must provide their own transportation.

**COURSE: WARRIOR TECH SUPPORT**

COURSE NUMBER: H919A & H919B

CREDIT: 1 General Elective

GRADE LEVEL: 10-12

REQUIRED: No

FEE: None

PREREQUISITE: Complete application and selection process

DESCRIPTION: The Warrior Tech Support course is a hands-on study of technology integration in an educational context. Students will be required to assess problem sets throughout the day and define the best approach to addressing or solving the problem. In addition to solving problems for students and teachers, students will be required to complete and maintain several running projects that address problems or solutions in educational technology integration. The course also provides students with the opportunity to pursue an independent learning pathway in one of four areas: innovation, design, entrepreneurship or applications and develop a project which positively impacts their community. Students will be able to collaborate with outside businesses and organizations as they develop and implement their projects. To be successful in this course, students should have a working knowledge of Microsoft Windows OS and Chrome OS; they should also possess a desire to help solve problems, create solutions, and explore new ideas and technologies.

**COURSE: PROFESSIONAL SKILLS & WORK EXPERIENCE**

COURSE NUMBER: H1803A & H1803B

CREDIT: 1 General Elective

GRADE LEVEL: 11-12

FEE: None

REQUIRED: No

PREREQUISITE: Enrolled in a minimum of 2 instructional hours per day, maintain a 95% attendance rate and avoid suspension or expulsion

DESCRIPTION: Professional Skills & Work Experience is available to students through the School Flex program. Students will successfully complete a Professional Skills orientation to ensure work place readiness at the beginning of the school year. Students will be supervised and evaluated by a certified staff member as well as their employer. This course is designed to ensure a successful transition from school life to work life.

## Physical Education (PE)

### *Physical Education Course Restrictions:*

- o *9<sup>th</sup> and 10<sup>th</sup> graders taking a weights course can take 1 additional physical education course*
- o *9<sup>th</sup> and 10<sup>th</sup> graders not in weights can enroll in 1 physical education course*
- o *11<sup>th</sup> and 12<sup>th</sup> graders can enroll in up to 2 physical education courses*

### **COURSE: CO-ED PHYSICAL EDUCATION**

COURSE NUMBER: H801A & H801B

CREDIT: 1 Physical Education

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: Co-Ed Physical Education emphasizes health-related fitness and developing the skills and habits necessary for a lifetime of activity. This course provides students with opportunities to achieve and maintain a health-enhancing level of physical fitness with the use of Polar heart rate technology and increases their knowledge of fitness concepts. The program includes skill development and the application of rules and strategies of complex difficulty in the following movement forms: 1) health-related fitness activities (cardio-respiratory endurance, muscular strength and endurance, flexibility and body composition), 2) aerobic exercise, 3) team sports 4) individual and dual sports and 5) recreational games. Ongoing assessment includes written and performance-based skill evaluations. This course can be repeated.

### **COURSE: HEALTH**

COURSE NUMBER: H813

CREDIT: .5 Health

GRADE LEVEL: 9-12

REQUIRED: Yes

FEE: None

PREREQUISITE: None

DESCRIPTION: In this course students will learn to investigate disorders, identify treatments and utilize prevention techniques to maintain healthy sensory, muscular, skeletal, integumentary (skin), cardiovascular/circulatory, respiratory, nervous, digestive, urinary/excretory, endocrine, reproductive, lymphatic-immune systems. Learning objectives focused on health maintenance and enhancement and risk assessment and reduction will be prominent during this course.

### **COURSE: LIFETIME SPORTS**

COURSE NUMBER: H816A & H816B

CREDIT: .5 or 1 Physical Education

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: This course provides students with the knowledge and skills essential to selecting and implementing activities which will ensure long-term wellness. Students should enter the class open to learning new activities and will walk away with an understanding and appreciation for the value of exercise. All activities will build upon motor skills employing individual activities and dual sports emphasizing rules and fair play. Personal fitness activities will provide basic principles of training that emphasizes all components of health-related fitness including cardio respiratory endurance, muscle strength and endurance, flexibility and injury prevention.

**COURSE: POWER SPORTS**

COURSE NUMBER: H1517A & H1517B

CREDIT: .5 or 1 Physical Education

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: This course is designed for students wishing to further their skill level and knowledge of football, basketball, volleyball and related sports topics including history of the sport, fundamental skill development, foot speed development as well as team and individual situational play. This course may serve as a foundation for the pursuit of interscholastic competition, recreational enjoyment, and coaching.

**COURSE: POWER WALKING**

COURSE NUMBER: H818A & H818B

CREDIT: .5 or 1 Physical Education

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: This course promotes aerobic and muscular endurance with the use of safe and mechanically effective walking techniques. It incorporates motivational techniques, pacing, and prevention of injuries. This course enhances the students' practical and cognitive knowledge of fitness and nutrition concepts as well as establish a sound, individual exercise program that may be maintained throughout life. The main activity component of this class will be walking. Walking routes will include established campus paths, indoor and outdoor tracks.

**COURSE: WEIGHT TRAINING**

COURSE NUMBER: H809A & H809B

CREDIT: 1 Physical Education

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: This course is designed to introduce the basics of weight training. Students will go at a slower pace as the proper techniques are introduced and performed. Students wanting to start a weight lifting routine in a highly structured, efficient and motivational environment should consider this course. Instruction will include a variety of individual training workouts utilizing free weights, body weight and medicine balls.

# Practical Arts (PA)

## Agriculture Education

Agriculture Education Three-Year Course Rotation					
School Year	Courses	School Year	Courses	School Year	Courses
2022-2023 & 2025-2026	Equine Science	2023-2024 & 2026-2027	Animal Science	2024-2025 & 2027-2028	Veterinary Science

### **COURSE: AGRICULTURE COMMUNICATIONS**

COURSE NUMBER: H1022A & H1022B

CREDIT: 1 Practical Art

GRADE LEVEL: 11-12

REQUIRED: No

FEE: Approximately \$25 FFA Membership

PREREQUISITE: Introduction to Agriculture, Food and Natural Resources

DESCRIPTION: This course will enable students to develop the knowledge, attitudes and skills to demonstrate positive leadership for agriculture. Areas of focus include public speaking, extemporaneous speaking, impromptu speaking, written communication, meeting people, good first impressions, personal goals, team work, team/organizational goals, organizing groups to take action and evaluation of team/organizational actions.

### **COURSE: AGRICULTURAL CONSTRUCTION**

COURSE NUMBER: H1002A & H1002B

CREDIT: 1 Practical Art

GRADE LEVEL: 11-12

REQUIRED: No

FEE: \$40 for consumables and safety glasses; Approximately \$25 FFA Membership

PREREQUISITE: Introduction to Agriculture, Food and Natural Resources and a junior or senior

DESCRIPTION: Agricultural Construction is a one-unit class for third year agriculture students. The course will involve use of all tools in the shop. The course develops skills in arc welding, gas welding, MIG welding, plasma arc cutting, and utilization of woodworking power tools. Construction of usable metal and wood projects is required during the second semester and students must plan on project construction. Safety tests will be passed prior to entering the construction laboratory. The course will require keeping a three-ring binder, FFA membership, supervised agricultural experience program, and possible participation on a career development team.

### **COURSE: AGRICULTURAL TRACTOR POWER**

COURSE NUMBER: H1008A & H1008B

CREDIT: 1 Practical Art

GRADE LEVEL: 11-12

REQUIRED: No

FEE: \$40 for consumables; approximately \$25 FFA Membership

PREREQUISITE: Introduction to Agriculture, Food and Natural Resources and a junior or senior

DESCRIPTION: This course will focus on the process of tractor restoration. Units of study include the basic principles of power transmissions, hydraulic systems, and tractor engines. Tractor operation, safety practices, and maintenance will receive major emphasis. Tractor overhaul will be included where feasible. The course will require keeping a Placement Notebook, FFA membership, supervised agricultural experience program, and possible participation on a career development team.

**COURSE: CASE AGRICULTURAL POWER AND TECHNOLOGY**

COURSE NUMBER: H7774A & H7774B

CREDIT: 1 Practical Art or Science

GRADE LEVEL: 11-12

REQUIRED: No

FEE: Approximately \$25 FFA Membership

PREREQUISITE: Introduction to Agriculture, Food and Natural Resources and a junior or senior

DESCRIPTION: A course designed to expose students to mechanics, power, technology, and career options in the world of agriculture. The course will provide experience in various mechanical and engineering concepts with exciting hands-on activities, projects, and problems. Units of study include energy, tool operation and safety, material properties, machine operation, and structural components. Students will acquire the basic skills to operate, repair, engineer, and design agricultural tools and equipment. Throughout the course, students will apply the engineering principles to the construction of machines and structures.

**COURSE: CASE ANIMAL SCIENCE~~**

COURSE NUMBER: H1003A & H1003B

CREDIT: 1 Practical Art (or Science credit – does not replace Biology) / Dual credit option available

GRADE LEVEL: 10-12

REQUIRED: No

FEE: \$25 for consumables; approximately \$25 FFA Membership

PREREQUISITE: Introduction to Agriculture, Food and Natural Resources and a junior or senior

DESCRIPTION: Animal Science is designed to develop basic understanding and real appreciation for the worth of livestock production and its importance in global, national and statewide agriculture. Units of study will include animal production, management, marketing, nutrition, breeding, production records, selection, animal health, waste management and biotechnology. The course will require keeping a three-ring binder, FFA membership, supervised agricultural experience program, and possible participation on a career development team.

*Not in course rotation for 2024-2025 school year*

*~~ Qualifies for Weighted Grades Designation*

**COURSE: EQUINE SCIENCE**

COURSE NUMBER: H1006A & H1006B

CREDIT: 1 Practical Art / Dual credit option available

GRADE LEVEL: 10-12

REQUIRED: No

FEE: \$25 for consumables; approximately \$25 FFA Membership

PREREQUISITE: Introduction to Agriculture, Food and Natural Resources and a junior or senior

DESCRIPTION: Equine science is a course that contains units of study that deal with the latest concepts of owning and managing a horse. This course will emphasize the principals involved in the selection, health management, facilities, nutritional management, exercise physiology, reproduction, track and business management. The students will obtain basic concepts of owning and managing an equine enterprise. The responsibility of management practices and cost benefits that can be gained in owning your own horse will be a focus of this course. The course will require keeping a three-ring binder, FFA membership, supervised agricultural experience program, and possible participation on a career development team.

*Not in course rotation for 2024-2025 school year*

*~~ Qualifies for Weighted Grades Designation*

**COURSE: INTRODUCTION TO AGRICULTURE, FOOD, AND NATURAL RESOURCES (AFNR)**

COURSE NUMBER: H7773A & H7773B

CREDIT: 1 Practical Art / Dual Credit option available

GRADE LEVEL: 9-11

REQUIRED: No

FEE: \$25.00 for consumable supplies, Approximately \$25 FFA Membership

PREREQUISITE: None

DESCRIPTION: Introduction to Agriculture, Food, and Natural Resources (AFNR) introduces students to agricultural opportunities and the pathways of study in agriculture. Science, mathematics, reading, and writing components are woven in the context of agriculture and students will use the introductory skills and knowledge developed in this course throughout the Agricultural Education curriculum. Throughout the course are activities to develop and improve employability skills of students through practical applications. Students explore career and post-secondary opportunities in each area of the course. Students investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community. FFA membership required.

**COURSE: SUPERVISED AGRICULTURAL EXPERIENCE CO-OP**

COURSE NUMBER: H1007A & H1007B

CREDIT: 1 Practical Art

GRADE LEVEL: 11-12

REQUIRED: No

FEE: Approximately \$25 FFA Membership

PREREQUISITE: Introduction to Agriculture, Food and Natural Resources and Placement Training Agreement

DESCRIPTION: Supervised Agricultural Experience Co-Op provides enrollment for students that are released on school time to complete a cooperative occupational experience in an approved training station in agriculture. A signed training agreement and training plan must be completed for each student. The course will require keeping a Placement Notebook, FFA membership, supervised agricultural experience program, and possible participation on a career development team.

**COURSE: VETERINARY SCIENCE**

COURSE NUMBER: H1009A & H1009B

CREDIT: 1 Practical Art / Dual credit option available

GRADE LEVEL: 10-12

REQUIRED: No

FEE: Approximately \$25 FFA Membership

PREREQUISITE: Introduction to Agriculture, Food and Natural Resources and a junior or senior. Special permission would be needed by non-current agriculture education students.

DESCRIPTION: This course involves the study of both food and companion animals. Topics include cell and tissue biology, anatomy, physiology, nutrition, disease prevention and diagnosis, and surgical procedures. The course will require keeping a three-ring binder, FFA membership, supervised agricultural experience program, and possible participation on a career development team.

*~~ Qualifies for Weighted Grades Designation*

## Business Education

<b>Finance/Accounting Pathway</b>		
<b>Introductory Level</b>	<b>Technical Level</b>	<b>Application Level</b>
Introduction to Business	Computer Programming Accounting I Personal Finance	Accounting II Business Law CAPS

### **COURSE: ADVERTISING & PROMOTIONAL MARKETING**

COURSE NUMBER: H1301

CREDIT: .5 Practical Art

GRADE LEVEL: 10-12

REQUIRED: No

FEE: None

PREREQUISITE: Intro to Business

DESCRIPTION: This course is designed to introduce students to integrated marketing communications (IMC) strategies and tactics, the practices known best as advertising, promotion, direct response, public relations, and marketing communications. It will examine communications theory as well as provide hands-on experience in creating advertising and media plans, and creative campaigns. This course will also examine how marketers integrate and link their communications to generate maximum impact and leverage for brands.

### **COURSE: ACCOUNTING I**

COURSE NUMBER: H1100A & H1100B

CREDIT: 1 Practical Art

GRADE LEVEL: 10-12

REQUIRED: No

FEE: None

PREREQUISITE: C average in Math is recommended

DESCRIPTION: This course is designed to build a basic understanding of manual and automated accounting principles, concepts, and procedures. Activities include the accounting equation, the accounting cycle, entering transactions in journals, posting to ledgers, preparing end-of-period statements and reports, payroll systems, banking activities, taxes, and other related topics. Students will complete the accounting cycle for a sole proprietorship and partnership. Microsoft Excel will be used to supplement learning. A student must successfully complete the first semester before taking the second semester of Accounting I. Students must be able to work on an individualized basis.

### **COURSE: BUSINESS LAW**

COURSE NUMBER: H1112

CREDIT: .5 Practical Art / Dual credit option available

GRADE LEVELS: 10-12

REQUIRED: No

FEE: None

PREREQUISITE: Introduction to Business

DESCRIPTION: 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, individual rights, wills and estates. Business communication is a key component of this course and includes written, interpersonal and public speaking.

*~~ Qualifies for Weighted Grades Designation*

**COURSE: COMPUTER PROGRAMMING I**

COURSE NUMBER: H8091

CREDIT: .5 Practical Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: This course will be tailored to the student. This course will include general technology concepts like college/business software, computer components, security, ethics and documentation while allowing students to design additional computer science curriculum such as a coding language like python and/or graphics/web design including website generator apps, Adobe to HTML/CSS. Students will be required to implement technology through projects partnering with the school or local businesses.

**COURSE: COMPUTER PROGRAMMING II**

COURSE NUMBER: H8093

CREDIT: .5 Practical Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: Computer Programming I

DESCRIPTION: This course will be tailored to the student. This course will include general technology concepts like college/business software, computer components, security, ethics and documentation while allowing students to design additional computer science curriculum such as a coding language like python and/or graphics/web design including website generator apps, Adobe to HTML/CSS. Students will be required to implement technology through projects partnering with the school or local businesses.

**COURSE: COMPUTER PROGRAMMING III**

COURSE NUMBER: H8094

CREDIT: .5 Practical Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: Computer Programming II

DESCRIPTION: This course will be tailored to the student. This course will include general technology concepts like college/business software, computer components, security, ethics and documentation while allowing students to design additional computer science curriculum such as a coding language like python and/or graphics/web design including website generator apps, Adobe to HTML/CSS. Students will be required to implement technology through projects partnering with the school or local businesses.

**COURSE: COMPUTER PROGRAMMING IV**

COURSE NUMBER: H8095

CREDIT: .5 Practical Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: Computer Programming III

DESCRIPTION: This course will be tailored to the student. This course will include general technology concepts like college/business software, computer components, security, ethics and documentation while allowing students to design additional computer science curriculum such as a coding language like python and/or graphics/web design including website generator apps, Adobe to HTML/CSS. Students will be required to implement technology through projects partnering with the school or local businesses.

**COURSE: INTRODUCTION TO BUSINESS**

COURSE NUMBER: H1125A & 1125B

CREDIT: 1 Practical Art

GRADE LEVEL: 9-12

REQUIRED: No – Fulfills speech requirement

FEES: \$25

PREREQUISITE: None

DESCRIPTION: This course is designed to introduce students to how business works and to provide a foundation for other business courses. Content includes economics, accounting/finance, management, marketing, operations and business law. International business is also discussed as well as employment skills. A resume and interviewing knowledge will be included. This course will also build on basic business concepts by developing a business or business idea. Students will be required to apply the learned concepts by developing a business plan and Shark-Tank presentation for a business of their choice. Business communication is a key component of this course and includes written, interpersonal and public speaking. This course earns the following MVA - Entrepreneurial Experience for business plan development and Green Tie Affair participation.

**COURSE: MARKETING I & II**

COURSE NUMBER: H1302 & H2459

CREDIT: .5 or 1 Practical Art

GRADE LEVEL: 9-12

REQUIRED: No

FEES: \$20 (Marketing II)

PREREQUISITE: None

DESCRIPTION: This course includes the exploration of principles and methods of product development, distribution, and pricing strategy as well as consumer behavior, market research, and market segmentation. This is an instructional program for students who are preparing for a career in marketing, management, or other related career areas. Topics include: market identification, market strategy, distribution, interpersonal skills, social responsibility and free enterprise economies.

Marketing II earns the following MVAs (market value assets) - Client Connected Project and IRCs (Industry Recognized Credentials).

**COURSE: MARKETING AND COMMUNICATIONS INTERNSHIP**

COURSE NUMBER: H1305A & H1305B

CREDIT: .5 or 1 Practical Art

GRADE LEVEL: 11-12

REQUIRED: No

FEES: None

PREREQUISITE: None

DESCRIPTION: A student who is selected through an application and interview process will be given the opportunity to first-hand study marketing, public-relations and communication. Opportunities that will be available to marketing & communication interns include, but are not limited to, photography, videography, graphic design and journalism. Applicants should have an interest in marketing and be able to work independently.

**COURSE: PERSONAL FINANCE**

COURSE NUMBER: H1118

CREDIT: .5 Personal Finance

GRADE LEVEL: 11-12

REQUIRED: Yes

FEE: None

PREREQUISITE: None

DESCRIPTION: Understanding and managing personal finances are key to one's future financial success. This one-semester course presents essential knowledge and skills to make informed decisions about real-world financial issues and is based on the Missouri Personal Finance Competencies: saving and investing; money management; spending and credit; and income. Students will learn how choices

influence occupational options and future earning potential. Students will also learn to apply decision-making skills to evaluate career choices and set personal goals. This course content is designed to help the learner make wise spending, saving and credit decisions and to make effective use of income to achieve personal financial success.

**COURSE: PRINTMAKING - (Entrepreneurial Experience MVA )**

**COURSE NUMBER:**

**CREDIT:** .5 Practical Art

**GRADE LEVEL:** 9-12

**REQUIRED:** No

**FEE:** \$25

**PREREQUISITE:** Art Foundations

**DESCRIPTION:** Explore the dynamic intersection of creativity and business in our Screen Printing and Product Development class. This course is designed to provide high school students with a unique blend of artistic expression, graphic design, and practical business skills as they embark on a journey into the world of screen printing and product development.

**Entrepreneurial Mindset:** Foster an entrepreneurial mindset by exploring opportunities for innovation, creativity, and problem-solving within the context of product development and development of marketable products.

This course not only hones students' artistic and technical abilities in screen printing but also equips them with practical skills essential for success in the business world. By the end of the term, students will have experienced the entire product lifecycle, from conception to production to retail. This unique blend of creativity and business prepares students for diverse career paths and provides a solid foundation for those interested in entrepreneurship, design, or business.

**COURSE: PROJECT MANAGEMENT**

**COURSE NUMBER:** H1315A & H1315B

**CREDIT:** .5 or 1 Practical Art

**GRADE LEVEL:** 10-12

**REQUIRED:** No

**FEE:** \$20

**PREREQUISITE**

**DESCRIPTION:** This course provides students the opportunity to engage in more in-depth and sustained research and design of community, business, and/or government projects. Students work directly with business and community partners to take on projects, problems, and/or pursue opportunities to create something new. Research strategies, prototype testing and evaluation, and communication skills are emphasized. As this course is a part of the micro-school, a majority of the learning will be through hands-on, project-based learning. Students will work in teams to complete client-connected projects in order to achieve course standards. Student projects/portfolios all meet ISTE standards and are aligned to National Business Education standards. This course earns the following MVA (market value asset) - Client Connected Project.

**COURSE: SPORTS & ENTERTAINMENT MARKETING**

**COURSE NUMBER:** H1306

**CREDIT:** .5 Practical Art

**GRADE LEVEL:** 11-12

**REQUIRED:** No

**FEE:** None

Explore the intriguing world of sports and entertainment from the perspective of marketing. Sports entertainment marketing covers topics such as college and amateur sports, professional sports, public images, marketing entertainment, marketing plans, and legal issues.

**COURSE: SUPERVISED BUSINESS EMPLOYMENT**

COURSE NUMBER: H1128

CREDIT: .5 Practical Arts

GRADE LEVEL: 11-12

REQUIRED: No

FEE: \$35

PREREQUISITE: Intro to Business

DESCRIPTION: Students apply and are selected to manage the school's Grind, the Warrior Tribe Store, and Warrior Print (custom screen printing). Grade is based on a performance, review of attendance, initiative, managing other students and tasks required to run the business. Money handling as well as customer service are key necessities to success of the position.

## Engineering/Industrial Technology

**PROJECT LEAD THE WAY (PLTW)** is a nationally recognized engineering curriculum being offered through the Smithville School District. The sequence of courses are 1) Introduction to Engineering Design, 2) Principles of Engineering or Civil Engineering and Architecture. Ask your Guidance Counselor about information regarding PLTW or go to [www.pltw.org](http://www.pltw.org). Courses marked with a double asterisk (\*\*) are approved Project Lead the Way courses.

**\*\*COURSE: CIVIL ENGINEERING AND ARCHITECTURE (CEA)~~**

COURSE NUMBER: H907A & H907B

CREDIT: 1 Practical Art

GRADE LEVEL: 10-12

REQUIRED: No

FEE: None

PREREQUISITE: Introduction to Engineering & Design (IED)

DESCRIPTION: Civil Engineering and Architecture is the study of the design and construction of residential and commercial building projects. The course includes an introduction to many of the varied factors involved in building design and construction including building components and systems, structural design, stormwater management, and careers in the design and construction industry. The major focus of the CEA course is to expose students to the design and construction of residential and commercial building projects, design teams and teamwork, communication methods, engineering standards, and technical documentation.

*~~ Qualifies for Weighted Grades Designation*

**\*\*COURSE: INTRODUCTION TO ENGINEERING DESIGN (IED)~~**

COURSE NUMBER: H900A & H900B

CREDIT: 1 Practical Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: Mathematics and Science interest needed

DESCRIPTION: The major focus of this course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. Students will employ engineering and scientific concepts in the solution of engineering design problems. IED gives students the opportunity to develop skills and understanding of course concepts through activities, problems, and projects. The course assumes no previous knowledge, but students should be concurrently enrolled in college preparatory mathematics and science. In addition, students use a state of the 3D solid modeling design software package to help them design solutions to solve proposed problems.

*~~ Qualifies for Weighted Grades Designation*

**\*\*COURSE: PRINCIPLES OF ENGINEERING (POE)~~**

COURSE NUMBER: H901A & H901B

CREDIT: 1 Practical Art

GRADE LEVEL: 10-12

REQUIRED: No

FEE: None

PREREQUISITE: Introduction to Engineering & Design (IED)

DESCRIPTION: This course of engineering exposes students to major concepts they will encounter in a postsecondary engineering course of study. Students employ engineering and scientific concepts in the solution of engineering design problems. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, documenting their work and communicating solutions to peers and members of the professional community.

*~~ Qualifies for Weighted Grades Designation*

## Family and Consumer Sciences

### **COURSE: BAKING & PASTRY**

COURSE NUMBER:

CREDIT: .5 Practical Art

GRADE LEVEL: 10-12

REQUIRED: No

FEE: \$25

PREREQUISITE: Intro to Foods and Food Science

DESCRIPTION: This course is an option following Food Science. This course allows students a more in-depth study of baking and pastry arts. Areas of study include baking terminology, tool and equipment use, formula conversions, functions of ingredients, and methods used in creating breads, pastries, cookies, and other desserts. The fundamentals of dough and basic decorating skills are covered.

### **COURSE: CHILD DEVELOPMENT I**

COURSE NUMBER: H1203

CREDIT: .5 Practical Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: This course focuses on infant education and covers prenatal care and birth through the 1<sup>st</sup> year, including physical, social, emotional and intellectual developmental milestones. This course offers the opportunity to wear an Empathy Belly pregnancy simulator as optional extra credit.

### **COURSE: CHILD DEVELOPMENT II**

COURSE NUMBER: H1204

CREDIT: .5 Practical Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: Child Development I with a C or higher

DESCRIPTION: This course includes the physical, social, emotional and intellectual development of a child from preschool to school age. Additional study explores health & safety, effective parenting skills, common problems of childhood discipline, and special needs of some children. Preschool labs will be a requirement of this course. Child Development I is a prerequisite for this class.

### **COURSE: CHILD DEVELOPMENT INTERNSHIP**

COURSE NUMBER: H1210A & H1210B

CREDIT: 1 Practical Art

GRADE LEVEL: 11-12

REQUIRED: No

TRANSPORTATION: Provided by student.

FEE: None

PREREQUISITES: Child Development II, Instructor Approval

DESCRIPTION: This course is designed to provide opportunities for students who have an interest in working with children. Child Development Internship allows students to get hands-on experience with children ranging from birth to preschool. Students will interact with children through observations, and will gain professional, career-focused skills. Students will be placed in a preschool classroom alongside a cooperating teacher. Child Development I and Child Development II are prerequisites for this class. Internship hours may also apply to A+ tutoring hours.

**COURSE: FASHION & TEXTILES**

COURSE NUMBER: H1208A & H1208B

CREDIT: 1 Practical Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: Cost of sewing supplies

PREREQUISITE: None

DESCRIPTION: This course explores the design of fashion, care of clothing, manufacturing of fabrics, and beginner through advanced clothing construction skills. At least 5 sewing projects are required.

PREREQUISITE FOR FASHION & TEXTILES II.

**COURSE: FASHION & TEXTILES II**

COURSE NUMBER: H1207A & H1207B

CREDIT: 1 Practical Art

GRADE LEVEL: 11-12

REQUIRED: No

FEE: Cost of sewing supplies

PREREQUISITE: Fashion & Textiles

DESCRIPTION: This course explores the design of fashion, care of clothing, manufacturing of fabrics, and beginner through advanced clothing construction skills. At least 3 sewing projects are required.

Fashion & Textiles I is a prerequisite for this class.

**COURSE: FASHION & TEXTILES III**

COURSE NUMBER: H1210

CREDIT: .5 Practical Art

GRADE LEVEL: 11-12

REQUIRED: No

FEE: Cost of sewing supplies

PREREQUISITE: Fashion & Textiles II

DESCRIPTION: Fashion & Textiles III is designed to advance students' interests in fashion related career paths by promoting an independent study environment, where students can design, select and produce textiles and apparel while strengthening their sewing and apparel production skills. Students will also have an opportunity to work alongside the school store with apparel production and merchandising, as well as collaborate with members of the school district and community on alterations, repairs, and apparel production needs.

**COURSE: HOUSING & INTERIOR DESIGN**

COURSE NUMBER: H1209

CREDIT: .5 Practical Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: Housing & Interior Design is designed for students to gain background knowledge for careers in interior design, furnishings, and maintenance. Topics include: housing decisions, housing and furnishing selection, elements and principles of design, housing and furniture styles, universal access, selection and care of furnishings, safe and healthy living environments, and space planning.

**COURSE: INTERNATIONAL FOODS**

COURSE NUMBER: H909

CREDIT: .5 Practical Art

GRADE LEVEL: 10-12

REQUIRED: No

FEE: \$25

PREREQUISITE: Intro to Foods and Food Science

DESCRIPTION: This course, while focusing on proper food preparation and procedures, introduces the student to international and ethnic specific cuisines. It includes instructions on the psychological, cultural, and social influences on food choices in world cuisine. Availability of foods due to food production, food supply, legislation and regulations are discussed.

**COURSE: INTRO TO FOODS**

COURSE NUMBER: H901

CREDIT: .5 Practical Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: \$25

PREREQUISITE: None

DESCRIPTION: This course is designed to prepare students for a lifetime of good nutrition and overall wellness. The course equips students with knowledge and skills by covering the basics of nutritional health and wellness, meal planning, food selection, safety and sanitation, following a recipe, and food preparation. Students will be required to participate in cooking labs to provide hands-on applications.

**COURSE: FOOD SCIENCE**

COURSE NUMBER: H902

CREDIT: .5 Practical Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: \$25

PREREQUISITE: Intro to Foods

DESCRIPTION: Food Science will cover basic culinary skills, management and hospitality of culinary careers, and exploration of foods from other lands. Intro to Foods is a prerequisite. The Food Science Fundamentals assessment/certification address competencies and a skill set necessary for success as a pre-professional in a career with a substantial focus on food science. It will facilitate employment in early career ladder positions and promote continuing education at the post-secondary level in career areas involving: food science, food safety, food quality, food technology, or food preservation and packaging. Intro to Foods is a prerequisite for this class.

**COURSE: SELF DEVELOPMENT**

COURSE NUMBER: H1205O

CREDIT: .5 Practical Art

GRADE: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: None

METHOD OF DELIVERY: Online

DESCRIPTION: Self-development is designed for students to participate in a self-discovery process to become the best version of yourself. This course explores mental and physical health, social behaviors, personality traits, communication, conflict resolution, and human development. Internet access at home is not a requirement for this course.

## Journalism

### **COURSE: INTRODUCTION TO BROADCAST JOURNALISM**

COURSE NUMBER: H146

CREDIT: .5 Practical Art

GRADE LEVEL: 9-12

REQUIRED: Minimum of a B average in English Language Arts

FEE: \$25

PREREQUISITE: None

DESCRIPTION: This course is designed to provide students with the training they need to work for the Smithville Media Network. The course covers the fundamentals of journalism, including skills in reporting, writing, editing, photojournalism, media literacy, law and ethics of media, and visual/graphic design, videography, and digital editing.

### **COURSE: INTRODUCTION TO YEARBOOK**

COURSE NUMBER: H1071

CREDIT: .5 Practical Art

GRADE LEVEL: 9-12

REQUIRED: Minimum of a B average in English Language Arts

FEE: \$10

PREREQUISITE: None

DESCRIPTION: This course is designed to provide students with the training they need to work for the Smithville yearbook staff. The course covers the fundamentals of journalism, including skills in reporting, writing, editing, photojournalism, media literacy, law and ethics of media, and visual/graphic design.

### **COURSE: ADVANCED JOURNALISM: NEWS BROADCASTING**

COURSE NUMBER: H1081A & H1081B

CREDIT: 1 Practical Art

GRADE LEVEL 10-12

REQUIRED: No

FEE: \$25

PREREQUISITE: Intro to Broadcast Journalism

DESCRIPTION: This course provides students hands-on experience in producing for SMN, a monthly television production. Students will produce a weekly 10-minute broadcast, produce video packages for the broadcast, and are involved in the daily technical aspects of this production. Emphasis is on communication skills among staff members and communication of information to the student body. Skills will focus on speaking, scriptwriting, video camera handling, non-linear editing, interviewing, and storytelling. Students will work with digital editing and graphics programs in the television studio and the journalism lab to create content for SMN. Students are also required to work a predetermined amount of time outside of class for SMN.

### **COURSE: ADVANCED JOURNALISM: YEARBOOK**

COURSE NUMBER: H118A & H118B

CREDIT: 1 Practical Art

GRADE LEVEL: 9-12

REQUIRED: No

FEE: \$10

PREREQUISITE: Intro to Yearbook

DESCRIPTION: Students produce the yearbook by completing assigned spreads on or before set deadlines. Responsibilities include advertising sales, yearbook sales, organizing and editing yearbook pages, drawing layouts, making photo assignments and writing body copy, captions, and headlines to comply with stylebook guidelines. Students are also required to work a predetermined amount of time outside of class for yearbook. This course can be repeated.

## Science (SC)

### COURSE: **ANATOMY AND PHYSIOLOGY**

COURSE NUMBER: H319

CREDIT: .5 Science

GRADE LEVEL: 11-12

REQUIRED: No

FEE: \$15.00 for consumables

PREREQUISITE: Biology

DESCRIPTION: Physiology and Anatomy is an advanced course that would be beneficial to any student interested in a career in Health Services. Major body systems studied will include integumentary, skeletal, muscular, nervous, blood, cardiovascular, and reproductive. Labs will be a part of each unit including the rat dissection, sheep brain, and sheep heart.

### COURSE: **COLLEGE PHYSICS** ~~

COURSE NUMBER: H312A & H312B

CREDIT: 1 Science / Dual credit optional

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: Physical Science and completion or current enrollment in Math Analysis

DESCRIPTION: This course is designed to prepare students for a Physics I course in college. It will also be useful for students who want to pursue a career in engineering, medicine, or mechanics. Topics that will be introduced and mastered include scalar and vector quantities, displacement, velocity, acceleration, two-dimensional motion, forces, work, energy, momentum, and circular motion. To succeed in Physics, students should have shown above average achievement in Algebra I, Algebra II and/or Geometry. A very heavy emphasis will be placed on the student's ability to use mathematics to solve word problems. Laboratory experiments will rely on measurements and calculations, and the ability to explain their significance as it relates to the particular concept.

~~ *Qualifies for Weighted Grades Designation*

### COURSE: **CHEMISTRY**

COURSE NUMBER: H310A & H310B

CREDIT: 1 Science

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: Physical Science and completion or current enrollment in Algebra II

DESCRIPTION: Chemistry is a study of the atomic and molecular structure of matter. Chemical equations, problems, and work in the laboratory are features of this course. Individual investigations are emphasized. Chemistry is desirable for all students who plan to attend college and is essential for those who plan careers in science, medicine, or related technical fields. Students who take Chemistry should have a strong working knowledge of Algebra as emphasis is placed on solving word problems.

### COURSE: **COLLEGE BIOLOGY** ~~

COURSE NUMBER: H3010A & H3010B

CREDIT: 1 Science / Dual credit required

GRADE LEVEL: 12

FEE: Dual credit fee through college

PREREQUISITE: Biology

DESCRIPTION: The purpose of this course is to provide the student with the basic principles of biology. It is a lecture and laboratory course. The course involves a study of concepts in biochemistry, cell biology, genetics, evolution, and ecology. High school science credit is received and with proper enrollment and payment of fees, four hours of credit from Missouri Western State University may be obtained. This is a beginning college course for science and pre-professional majors. Potential students should possess a good high school background of science and English. A laboratory course must be taken concurrently.

~~ *Qualifies for Weighted Grades Designation*

**COURSE: COLLEGE CHEMISTRY** ~~  
COURSE NUMBER: H311A & H311B  
CREDIT: 1 Science / Dual credit required  
GRADE LEVEL: 12  
REQUIRED: No

FEE: Dual Credit fee through college

PREREQUISITE: General Chemistry; Math ACT of 22 or  $\geq$ B in Math Analysis, and GPA 3.0 or higher

DESCRIPTION: This is a beginning college course for science and pre-professional majors. It provides the basic principles of chemistry and is a lecture and laboratory course that involves a study of basic molecular structure, periodic relationships, and a thermodynamic approach to reaction systems. Students should possess a good background of math and English. A laboratory course must be taken concurrently.

~~ *Qualifies for Weighted Grades Designation*

**COURSE: COLLEGE PHYSICAL GEOGRAPHY** ~~

COURSE NUMBER: H334A & H334B

CREDIT: 1 Science / Dual credit option available

GRADE LEVEL: 11-12

FEE: None

PREREQUISITE: None

DESCRIPTION: This introductory course surveys the processes that shape our planet. Topics include: Plate tectonics and mountain building, rivers and oceans, atmospheric circulation, weather and climate, and the amazingly complex relationships between life on Earth and the physical environment. Students will examine the Earth's structure and the fundamental interactions between its systems, i.e. atmosphere, water, landscape and biologic. Students will discuss issues highlighting the interaction of systems and cycles, feedback mechanisms, modes of system change, and the human environment in case studies throughout the course.

~~ *Qualifies for Weighted Grades Designation*

**COURSE: EARTH AND SPACE SCIENCE**

COURSE NUMBER: H325

CREDIT: .5 Science

GRADE LEVEL: 10-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: This course will introduce students to basic concepts of the earth including early and current models of Earth. Specific units covered will include composition, plate tectonics, surface characteristics, geologic time and space and history.

**COURSE: FORENSIC SCIENCE**

COURSE NUMBER: H314

CREDIT: .5 Science

GRADE LEVEL: 11-12

REQUIRED: No

FEE: \$15.00 for consumables

PREREQUISITE: Physical Science and Biology

DESCRIPTION: Forensic Science is an elective science course that provides an overview of the entire field of Forensic Science. Subject matter covers the Historical Perspective, Career Opportunities, and the specifics of what takes place at a Crime Scene Investigation - along with understanding Physical Evidence. Content is learned through both hands -on and virtual labs, and connecting Case Study analysis to real-world understanding.

**COURSE: BIOLOGY**

COURSE NUMBER: H301A & H301B

CREDIT: 1 Science

GRADE LEVEL: 10

REQUIRED: Yes

FEE: None

PREREQUISITE: None

DESCRIPTION: Students will learn a variety of biological topics including ecology, cells, genetic principles, evolution and the diversity of life. Labs enhancing the material include a dissection survey of various organisms.

**COURSE: OCEANOGRAPHY**

COURSE NUMBER: H324

CREDIT: .5 Science

GRADE LEVEL: 10-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: This course is designed to introduce students to concepts related to the ocean. The physical structures of the ocean floor, the principles of waves and movement, and communities within the ocean will be explored. The origins of the oceans will be investigated and will include an examination of atmospheric influences on the ocean. The effects of human interaction with the ocean will be evaluated and discussed.

**COURSE: PHYSICAL SCIENCE**

COURSE NUMBER: H300A & H300B

CREDIT: 1 Science

GRADE LEVEL: 9

REQUIRED: Yes

FEE: None

PREREQUISITE: None

DESCRIPTION: Physical Science addresses fundamental concepts of both chemistry (Semester 1) and physics (Semester 2). Chemistry topics of study include classifying matter, changing states of matter, atomic theory, the periodic table, chemical bonding, and acids and bases. Physics topics of study include motion, forces, work, power, energy, the electromagnetic spectrum and properties of waves. The class is lab and inquiry based, with a significant focus on using a lab notebook to document key science learning and to help in the development of scientific critical thinking skills.

**COURSE: ZOOLOGY**

COURSE NUMBER: H332

CREDIT: .5 Science

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: Biology with a 70% or higher

DESCRIPTION: The purpose of this course is to introduce the world of animals by studying the different phyla and classes of invertebrates and vertebrates in depth. We focus on the main characteristics of each and identify them based on specimens. We will view slides and also preserved specimens. Dissections should be expected.

## PLTW Biomedical Strand

**COURSE: HUMAN BODY SYSTEMS (HBS)~~**

COURSE NUMBER: H338A & H338B

CREDIT: 1 Science

GRADE LEVEL: 10-12

FEE: None

PREREQUISITE: Principles of Biomedical Science

DESCRIPTION: This is the second course in the PLTW Biomedical Program. Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs and tissues on a skeletal Maniken®; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases. Students who earn a B or better may acquire elective college credit by submitting an application to Missouri University of Science & Technology after completion of the course (reduced tuition).

~~Qualifies for Weighted Grade Designation

**COURSE: PRINCIPLES OF BIOMEDICAL SCIENCE (PBS)~~**

COURSE NUMBER: H335A & H335B

CREDIT: 1 Science

GRADE LEVEL: 9-12

FEE: None

PREREQUISITE: None

DESCRIPTION: This course is the introductory course in the Project Lead the Way Biomedical Program. Student work involves the study of human medicine, research processes and an introduction to bio-informatics. Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle-cell disease, and infectious diseases. Key biological concepts taught include: homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease. Engineering principles include: the design process, feedback loops, fluid dynamics, and the relationship of structure to function. Students who earn a B or better may acquire elective college credit by submitting an application to Missouri University of Science & Technology after completion of the course (reduced tuition).

~~ Qualifies for Weighted Grades Designation

**COURSE: MEDICAL INTERVENTIONS~~**

COURSE NUMBER: H340A & H340B

CREDIT: 1 Science

GRADE LEVEL: 11-12

FEE: None

PREREQUISITE: Successful completion of Human Body Systems

DESCRIPTION: Medical practice includes interventions to support humans in treating disease and maintaining health. Student projects will investigate various medical interventions that extend and improve quality of life, including gene therapy, pharmacology, surgery, prosthetics, rehabilitation, and supportive care. Students will study the design and development of various medical interventions including vascular stents, cochlear implants, and prosthetic limbs. They will review the history of organ transplants and gene therapy, and read current scientific literature to be aware of cutting-edge developments. Using 3D imaging software and current scientific research, students will design and build a model of a therapeutic protein. Students who earn a B or better may acquire elective college credit by submitting an application to Missouri University of Science & Technology after completion of the course (reduced tuition).

~~ Qualifies for Weighted Grades Designation

## Social Studies (SS)

Social Studies Department Two-Year Rotation			
School Year	Courses	School Year	Courses
2023-2024 & 2026-2027	History Through Film & Criminal Justice	2024-2025 & 2028-2029	Sociology & World War II, The Holocaust, and Modern-Day Implications

### COURSE: AMERICAN HISTORY

COURSE NUMBER: H405A & H405B

CREDIT: 1 Social Studies

GRADE LEVEL: 9

REQUIRED: Yes

FEE: None

PREREQUISITE: None

DESCRIPTION: In American History, students will develop historical thinking skills as they delve into the story of America from the Reconstruction Era to the present day. Through the course of the school year, students will evaluate people and events that make up 20th Century United States History.

### COURSE: AP COMPARATIVE GOVERNMENT & POLITICS ~~

COURSE NUMBER: H402

CREDIT: .5 Social Studies

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: Students are introduced to fundamental concepts political scientists use to study the processes and outcomes of politics in a variety of country settings. It aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate to students the importance of global political and economic changes. In addition to covering the major concepts that are used to organize and interpret what we know about political phenomena and relationships, the course will cover specific countries and their governments. Six countries form the core of the AP Comparative Government and Politics course: China, Great Britain, Iran, Mexico, Nigeria, and Russia. Units of study include: Introduction to Comparative Politics; Sovereignty, Authority, and Power; Political Institutions; Citizens, Society, and the State; Political and Economic Change; and Public Policy.

~~ Qualifies for Weighted Grades Designation

### COURSE: AP PSYCHOLOGY ~~

COURSE NUMBER: H420A & H420B

CREDIT: 1 Social Studies

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: This college-level introductory psychology course introduces students to the scientific study of behavior and mental processes and exposes them to the psychological facts, principles, and phenomena associated with each of the major psychology subfields: sensation and perception, states of consciousness, motivation and emotion, development, personality, abnormal behavior, and more. They will also learn about the ethics and methods psychologists use.

~~ Qualifies for Weighted Grades Designation

**COURSE: AP UNITED STATES GOVERNMENT & POLITICS ~~**

COURSE NUMBER: H401

CREDIT: 1 Social Studies

GRADE LEVEL: 11-12

FEE: None

REQUIRED: No – Fulfills Civics requirement

DESCRIPTION: AP United States Government and Politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. government and politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. government and politics. Students will become acquainted with the variety of theoretical perspectives and explanations for various behaviors and outcomes. Units of study include: Constitutional Underpinnings of the United States; Political Beliefs and Behaviors; Political Parties/Interest Groups and Mass Media; Institutions of National Government; Public Policy; and Civil Rights and Civil Liberties.

*~~ Qualifies for Weighted Grades Designation*

**COURSE: AP UNITED STATES HISTORY ~~**

COURSE NUMBER: H406A & H406B

CREDIT: 1 Social Studies / Dual credit option available

GRADE LEVEL: 11-12

FEE: None

REQUIRED: No

DESCRIPTION: This course covers the evolution of American civilization from its colonial beginnings to the present. The AP program in United States History is designed to provide students with the analytical skills and enduring understandings necessary to deal critically with the problems and materials in United States history. The program prepares students for intermediate and advanced college courses by making demands upon them equivalent to those made by full-year introductory college courses. Students should learn to assess historical materials—their relevance to a given interpretive problem, their reliability, and their importance—and to weigh the evidence and interpretations presented in historical scholarship.

*~~ Qualifies for Weighted Grades Designation*

**COURSE: CIVICS**

COURSE NUMBER: H400

CREDIT: 1 Social Studies

GRADE LEVEL: 11

REQUIRED: Yes - can also be fulfilled by taking AP United States Government and Politics

FEE: None

PREREQUISITE: None

DESCRIPTION: The primary goal of Civics is to present basic information young citizens need for an understanding of their government--how it operates and their relationship to it. This course will help the student understand what our roles are as American citizens. Specific areas which will be covered in this course are: Federal and State governments, how local governments serve their citizens, electing our leaders, taking part in our political system, citizenship and family, citizenship in school, citizenship in our community, and improving life for all Americans. Special emphasis is given to the Missouri Constitution.

**COURSE: COLLEGE WORLD HISTORY ~~**

COURSE NUMBER: H425A & H425B

CREDIT: 1 Social Studies / Dual credit option available

GRADE LEVEL: 10-12

REQUIRED: No

FEE: None

PREREQUISITES: 3.0 GPA and a minimum B- average in previous English Language Arts course

DESCRIPTION: An emphasis is placed on interpreting documents, mastering factual information and writing critical essays. Students refine their analytical abilities and critical thinking skills to understand historical and geographical context, make comparisons across cultures, use documents and other primary sources, and recognize and discuss different interpretations and historical frameworks. This course traces the evolution of World History from prehistory to the present day. World History develops a greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. It highlights the nature of changes in international frameworks and their causes and consequences as well as comparisons among major societies. The course emphasizes factual knowledge in conjunction with leading interpretive issues and types of historical evidence and builds on an understanding of cultural, institutional, and technological precedents that, along with geography, set the human stage.

*~~ Qualifies for Weighted Grades Designation*

**COURSE: CRIMINAL JUSTICE**

COURSE NUMBER: H415

CREDIT: .5 Social Studies

GRADE LEVEL: 10-12

REQUIRED: No

FEE: None

PREREQUISITES: None

DESCRIPTION: This course will explore the criminal justice system in depth with an emphasis on the study of criminal justice as a discipline and career, the rights guaranteed to individuals in the Constitution, the criminal and civil trial processes, and theories of criminal behavior and reform. Students will evaluate criminal behavior in relationship to human behavior through research and analysis.

*Not in course rotation for 2024-2025 school year*

**COURSE: GLOBAL STUDIES**

COURSE NUMBER: H416

CREDIT: .5 Social Studies

GRADE: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: In this course, students will investigate the geography, economics, culture, politics, resources, and relationships of regions of the world that currently influence our global society. Students will come to understand the impact that the actions of individual countries can have on the world through the examination of issues shaping the world. In addition, students will come to understand the impact of the individual in our ever-shrinking global society.

**COURSE: HISTORY THROUGH FILM**

COURSE NUMBER: H417

CREDIT: .5 Social Studies

GRADE LEVEL: 10-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: Students enrolled in this course will study history through film. They are taught to analyze a film for historical accuracy and purpose. In addition, students examine how films often reflect the times and conditions in which they are made, and conversely, how motion pictures sometimes help shape attitudes and values in society. Understand how films can have very different points of view depending on where they are produced.

*Not in course rotation for 2024-2025 school year*

**COURSE: PSYCHOLOGY**

COURSE NUMBER: H408A & H408B

CREDIT: .5 or 1 Social Studies

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: This course is designed to increase student understanding of the science of psychology, its methods, and theories. Psychology is the study of the mind and behavior. The course will explore the psychological facts, principles, and phenomena within the major subfields of the study. It is hoped that the knowledge of psychological inquiry will provide perceptions of the world around us, produce insights into one's own and other's behavior, and give an appreciation for the complexity of the human mind. The students will delve into topics of the brain, human development, motivation, emotion, and memory. We will continue moving through the subfields of Psychology as we study personality, abnormal psychology, and states of consciousness. From these topics, we will try to understand the complexity of psychological disorders and treatments. We will also gain a greater understanding of human consciousness; such as the effects of psychoactive drugs, sleep, dreaming, and hypnosis.

**COURSE: SOCIOLOGY**

COURSE NUMBER: H410

CREDIT: .5 Social Studies

GRADE LEVEL: 10-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: Sociology is a study of human relations with emphasis on groups and institutions. Basic social problems with their historical backgrounds are included. Crime, delinquency, social welfare, racial relations, slums and other social problems that develop from living in a complex, changing society are studied.

**COURSE: WORLD HISTORY**

COURSE NUMBER: H403A & H403B

CREDIT: 1 Social Studies

GRADE LEVEL: 10

REQUIRED: Yes

FEE: None

PREREQUISITE: None

DESCRIPTION: The objectives of studying World History are to help students learn the major events and ways of life of the past; recognize similarities and differences among nations, governments, and people; recognize patterns in the rise and fall of civilizations, groups and nations; relate the past to the present; and to develop study skills.

**COURSE: WORLD WAR II, THE HOLOCAUST AND MODERN-DAY IMPLICATIONS**

COURSE NUMBER: H323

CREDIT: .5 Social Studies

GRADE LEVEL: 10-12

REQUIRED: No

FEE: None

PREREQUISITES: None

DESCRIPTION: This course will examine one of the most brutal times in world history. World War II saw an immediate threat for the world on the brink of dictatorship control. This course will examine the causes and effects of World War II. It will also dig deep into the Holocaust and discuss how World War II was a prelude to modern day events.

## World Languages (WL)

### French

#### **COURSE: FRENCH I**

COURSE NUMBER: H500A & H500B

CREDIT: 1 World Language

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: French I is an introduction to the basic structure of the language with a focus on the elementary written form, comprehension of the language when spoken, and pronunciation of studied words and phrases. To facilitate this language study, basic grammar, vocabulary, and culture will be learned.

#### **COURSE: FRENCH II**

COURSE NUMBER: H501A & H501B

CREDIT: 1 World Language

GRADE LEVEL: 10-12

REQUIRED: No

FEE: None

PREREQUISITE: C average or better in French I.

DESCRIPTION: French II is an extension of French I. Oral and written work expands to include future and past tenses and more advanced grammar forms. Students learn to converse comfortably and listen to the spoken language for the main message. Students will be able to explain how to get around, both in future, present, and past tense. Students continue the study of everyday life, customs, and culture of French-speaking countries

#### **COURSE: FRENCH III ~~**

COURSE NUMBER: H502A & H502B

CREDIT: 1 World Language / Dual credit option available

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: B average or better in French II.

DESCRIPTION: Fluency in intermediate oral and written French is a primary aim of this course. Students will read and view a wide selection of French materials including newspapers, magazines, comics, contemporary and classical literature, films. Grammar in action and vocabulary expansion occur as the students discuss, in the language, their classroom assignments.

*~~ Qualifies for Weighted Grades Designation*

#### **COURSE: FRENCH IV ~~**

COURSE NUMBER: H503A & H503B

CREDIT: 1 World Language / Dual credit option available

GRADE LEVEL: 12

REQUIRED: No

FEE: None

PREREQUISITE: B average or better in French III

DESCRIPTION: In this year, fluency in the oral and written language will be stressed. Studies will include more specific study of French works. Current and classical literature, music and art will be investigated, in addition to current publications and audiovisual materials.

*~~ Qualifies for Weighted Grades Designation*

## Spanish

### **COURSE: AP SPANISH LANGUAGE AND CULTURE ~~**

COURSE NUMBER: H513A & H513B

CREDIT: 1 World Language / Dual credit option available

GRADE LEVEL: 12

REQUIRED: No

FEE: None

PREREQUISITE: B average or better in Spanish IV

DESCRIPTION: AP Spanish V is intended for students who wish to develop proficiency and integrate their language skills, using authentic materials and sources. Students who enroll should already have knowledge of more complex grammatical structures language, basic knowledge of cultures of Spanish-speaking peoples, and should have attained a reasonable proficiency in using the language.

*~~ Qualifies for Weighted Grades Designation*

### **COURSE: FOUNDATIONS OF SPANISH I**

COURSE NUMBER: H511A & H511B

CREDIT: 1 World Language

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: This course is an extended study of present tense Latin American Spanish. This program explores basic grammatical structures designed to develop maximum ability in a beginning class. Various cultural studies include Spanish holiday celebrations, Spanish-speaking countries, art, food, diversity and tolerance.

### **COURSE: SPANISH I**

COURSE NUMBER: H504A & H504B

CREDIT: 1 World Language

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: This course is an intensive study of present tense Latin American Spanish. This program explores basic grammatical structures designed to develop maximum ability in a beginning class. Various cultural studies include Spanish holiday celebrations, Spanish-speaking countries, art, food, diversity and tolerance.

### **COURSE: SPANISH II**

COURSE NUMBER: H505A & H505B

CREDIT: 1 World Language

GRADE LEVEL: 9-12

REQUIRED: No

FEE: None

PREREQUISITE: C average or better in Spanish I.

DESCRIPTION: This course intensifies Spanish I studies. Spanish II is designed to develop reading, writing, listening, and speaking. Students will expand to past and future tense and more complex grammatical structures. Cultural studies are also increased as the students study Latin America culture and history, comparing Europe and Latin America.

**COURSE: SPANISH III ~~**

**COURSE NUMBER:** H506A & H506B

**CREDIT:** 1 World Language / Dual credit option available

**GRADE LEVEL:** 10-12

**REQUIRED:** No

**FEE:** None

**PREREQUISITE:** B average or better in Spanish II

**DESCRIPTION:** Upper Intermediate level language ability in the written and oral language will be a goal.

Textbook studies will be augmented by reading and by oral selections from literature, guest speakers, audiovisual materials and periodicals. Students will perform class work and projects in Spanish.

*~~ Qualifies for Weighted Grades Designation*

**COURSE: SPANISH IV ~~**

**COURSE NUMBER:** H507A & H507B

**CREDIT:** 1 World Language / Dual credit option available (Fulfills speech requirement)

**GRADE LEVEL:** 11-12

**REQUIRED:** No

**FEE:** None

**PREREQUISITE:** B average or better in Spanish III

**DESCRIPTION:** Fluency in spoken and written language will be encouraged. Classes will begin with brief presentations in Spanish from students as a portion of the daily lesson. Current and classical literature, music, and art of the Spanish culture will be explored. Current periodicals and audio-visual materials from Spanish speaking countries will be used as instructional aids for classroom instruction. Projects and class work will be conducted in the Spanish language

*~~ Qualifies for Weighted Grades Designation*

**COURSE: SPANISH CULTURE, COMPREHENSION AND CONVERSATION**

**COURSE NUMBER:** H517A & H517B

**CREDIT:** 1 World Language

**GRADE LEVEL:** 10-12

**REQUIRED:** No

**FEE:** None

**PREREQUISITE:** Successful completion of Spanish II (C+ or better)

**DESCRIPTION:** This course is a Spanish elective which focuses on acquiring Spanish and learning more about the Spanish culture. It is an alternative for students who want to continue learning Spanish, but don't want the pressure of a weighted, dual credit program as the course will emphasize the practice of everyday conversational Spanish versus formal academic language. This course can be repeated as the content will change each semester.

# Northland Career Center

Northland Career Center (NCC) offers both morning and afternoon sessions. Students need to check with their counselor to determine the number of credits needed to graduate and additional courses recommended. Student selection for the Northland Career Center is based on successful completion of prerequisites, good school attendance, grade point average, standardized test scores and an interest in career and technical education. Upon successful completion of a program, the student will receive a certificate.

## Apprenticeship

After meeting eligibility requirements students may receive advanced placement on the beginning wage scale upon admission to one of several apprenticeship programs.

## College Credit

Students may earn from college credit after successful completion of designated programs. Credit varies by program. Visit [northland.plattecountyschooldistrict.com](http://northland.plattecountyschooldistrict.com) or contact NCC at (816) 858-5505 for details.

## Program Options

### **COURSE: AGRICULTURAL SCIENCES – ANIMAL SYSTEMS**

COURSE NUMBER: H1634A & H1634B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 11-12

PREREQUISITES: Algebra I, Basic Science and 10<sup>th</sup> grade reading level

DESCRIPTION: AM only. This course exposes students to agriculture, animal systems, and related career options. Students' experiences will involve the study of animal anatomy, physiology, behavior, nutrition, reproduction, health, selection, and marketing. Students will consider the perceptions and preferences of individuals within local, regional and world markets. Students will explore hands-on projects and activities to learn the characteristics of animal science and work on major projects and problems similar to those that veterinarians, zoologists, livestock producers, and industry personnel face in their respective careers. In addition, students will understand specific connections between animal science lessons and Supervised Agricultural Experience and FFA components that are important for the development of an informed agricultural education student. Students will investigate, experiment, and learn about documenting a project, solving problems, and communicating their solutions to their peers and members of the professional community.

### **COURSE: AGRICULTURAL SCIENCES – PLANT SYSTEMS**

COURSE NUMBER: H1627A & H1627B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 11-12

PREREQUISITES: Algebra I, Basic Science and 10<sup>th</sup> grade reading level

DESCRIPTION: PM only. This course provides a foundation of plant systems knowledge and skills. Student experiences include the study of plant anatomy and physiology, classification, and the fundamentals of production and harvesting. Students learn how to apply scientific knowledge and skills to use plants effectively for agronomic, forestry and horticultural industries. Students will discover the value of plant production and its impact on the individual, local and global economies. Students will work on major projects and problems similar to those that horticulturalists, agronomists, greenhouse and nursery managers, and plant research specialists face in their respective careers. Students will understand specific connections between the course's lesson and Supervised Agricultural Experience and FFA components of agricultural education programs. Students will improve investigative, experimental and communication skills. This course is intended to build a foundation on the Introduction to Agriculture, Food and Natural Resources course. The course is structured to enable all students to have a variety of experiences that will provide an overview of the plant industries.

**COURSE: AVIATION TECHNOLOGY I**

COURSE NUMBER: H1628A & H1628B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 11-12

PREREQUISITES: Mechanical Aptitude, 12<sup>th</sup> grade reading level

DESCRIPTION: Instruction will include basic concepts in aircraft blueprints/drawings, structure/composition, corrosion, aircraft sheet metal, safety and human factors, and navigation. Students will also study the aerodynamics and performance of flying an Unmanned Aircraft in order to earn their USI Safety Certification. This program prepares students for continued education towards an Associate's Degree and/or an Airframe and Powerplant Certification. Students may also enter immediate employment following their two-year program. Internship opportunities their 2<sup>nd</sup> semester of their senior year are available for qualified candidates.

**COURSE: AVIATION TECHNOLOGY II**

COURSE NUMBER: H1659A & H1659B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 12

PREREQUISITES: Complete Aviation Technology I with a minimum of a C

DESCRIPTION: Instruction will include safety/human factors (OSHA Certification), aerodynamics, flight line safety and procedures, flight controls, avionics/electrical (NC3 Multimeter Certification), hydraulics, engines, and fuel. This program prepares students for continued education towards an Associate's Degree and/or an Airframe and Powerplant Certification. Students may also enter immediate employment following their two-year program. Internship opportunities their 2<sup>nd</sup> semester of their senior year are available for qualified candidates.

**COURSE: CONSTRUCTION TECHNOLOGY I**

COURSE NUMBER: H1600A & H1600B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 11-12

PREREQUISITES: Ability to read a tape measure, add and subtract fractions, calculate dimensions in feet and inches; work at various heights, able to lift 25 pounds and 11<sup>th</sup> grade reading level

DESCRIPTION: This competency-based program teaches skills and theory related to the building trades industry. Areas of study include framing, leveling, blueprint reading, building plans, specifications and codes, footings and foundations, and sheetrock hanging. Student must pass a safety test to work around hand and power tools. Students are required to provide their own boots and clothing for working in hot and cold weather.

**COURSE: CONSTRUCTION TECHNOLOGY II**

COURSE NUMBER: H1601A & H1601B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 12

PREREQUISITES: Complete Construction Technology I with a minimum of a C

DESCRIPTION: The program provides advanced instruction on the construction of a building which may include areas mentioned in Construction Technology I as well as rough framing, grading and measuring lumber, safety, and scaffolding work. Commercial construction will be introduced including the use of metal studs and the differences in building codes and techniques. The completion of course will provide opportunities for employment in residential or commercial construction.

**COURSE: CULINARY ARTS I**

COURSE NUMBER: H1605A & H1605B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 11-12

PREREQUISITES: Able to lift 50 pounds from the floor to a table; access to internet at home, 9th grade math level; 12<sup>th</sup> grade reading level

DESCRIPTION: The focus of study will be food service terminology, equipment identification and use, knife skills, basic food preparation, sanitation and safety. These skills and knowledge will lead to preparation methods for stocks, soups and sauces. Students will receive hands-on experience through assuming the role of steward (pot/dishwasher) and cooks' helper in the pre-preparation of meals. An understanding of multiplication, division, addition and subtraction of fractions and decimals, percent, and volume and weight measurement are essential.

**COURSE: CULINARY ARTS II**

COURSE NUMBER: H1606A & H1606B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 12

PREREQUISITES: Complete Culinary Arts I with a minimum of a C

DESCRIPTION: Students will continue to gain hands-on experience with the preparation of daily meals consumed by students, staff and guests. Emphasis will be on plate presentations, preparation and timing. Breakfast cookery, vegetables, starches and meats will be the focus of class work. Students will complete a nationally recognized sanitation exam. Successful completion of this course will prepare students for entry-level positions in full-service restaurants, hotels and continued education in a Culinary Apprenticeship program at the post-secondary level.

**COURSE: DIESEL TECHNOLOGY I**

COURSE NUMBER: H1607A & H1607B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 11-12

PREREQUISITES: Mechanical Aptitude, 12<sup>th</sup> grade reading level

DESCRIPTION: This is the first year of a two-year program. Instruction will include a basic concept of diesel engine theory, general shop safety practices, basic hand tools, common fasteners, shop equipment, precision measuring devices, and identifying, assembling and reassembling component parts. Introduction to various fuel systems, cooling systems, lubricating systems, failure analysis, preventative maintenance and electrical systems are studied and related activities performed.

**COURSE: DIESEL TECHNOLOGY II**

COURSE NUMBER: H1626A & H1626B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 12

PREREQUISITES: Complete Diesel Technology I with a minimum of a C

DESCRIPTION: This is the second year of a two-year program. Instruction includes a study of troubleshooting and tune-up procedures. Powertrains, air and hydraulic brakes, basic hydraulics, steering and suspension systems are included in this course. An introduction to welding and automotive air conditioning basic theory helps round out the students' knowledge.

**COURSE: ESSENTIAL SKILLS AWESOME CAREERS**

COURSE NUMBER: H3311A & H311B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE: 10

PREREQUISITES: 9th grade math level, mechanical aptitude

DESCRIPTION: AM only. Students will learn technical concepts in the area of safety, tools, electrical concepts, mechanical concepts, troubleshooting, precision measurement, blueprints and drawings, and project work in technical careers. Students will begin to explore technical careers in the career clusters of architecture and construction, manufacturing, and transportation and logistics. As the year progresses, the main focus will be on additional connections with electrical concepts and precision measuring. Northland Career Center offers students the opportunity to work with state-of-the-art equipment and gain valuable experiences. Taking this course will lead to opportunities to take any one of six technical courses at Northland Career Center (Aviation Technology, Construction Technology, Diesel Technology, Heating, Cooling, & Climate Control, Industrial Welding, and Production Technologies).

**COURSE: HEALTH SCIENCES I**

COURSE NUMBER: H1612A & H1612B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 11-12

FEE: Cost of uniform and name tag

PREREQUISITES: Must pass state criminal background and employee disqualification check; TB test and results required; hepatitis vaccination is encouraged, As of February 2022 Covid19 vaccination or medical/religious exemption is required by the State for the students to attend internship at a long-term care facility; 10<sup>th</sup> grade reading level, knowledge in basic science, and positive people skills encouraged.

DESCRIPTION: Health Sciences I is a one- or two-year program that teaches students basic health care, CPR, anatomy, common disorders and introduction to medical terminology. The students will explore a variety of careers in the health field including radiology, physical therapy, veterinary, dietary, respiratory therapy, medical records, dentistry, etc., to enable students to make an informed decision about a career in health care. They will spend two weeks at a nursing home chosen by the instructor. At the end of the first semester there is a written and performance test. If a student does not achieve a 60% on the performance test, they will not be recommended to return second semester. Due to the nature of off-site work; attendance, behavior, and academic policies are strictly followed. Students must have a "C" average or be recommended by the instructor to return for the second semester. Second semester, students spend ten weeks in clinical sites and at this point must provide their own transportation. Students desiring to earn their Certified Nursing Assistant Certification (CNA) will work/volunteer at a long-term care facility. Students that do not want to earn their CNA will need to find work or volunteer experience at a health care facility. Students have the opportunity to take the Certified Nursing Assistant state test.

**COURSE: HEALTH SCIENCES II**

COURSE NUMBER: H1613A & H1613B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 12

PREREQUISITES: Complete Health Sciences I with a minimum grade of 80%

DESCRIPTION: Health Sciences II will include medical terminology, school to work and enhancement of their knowledge in their chosen field. Second quarter the students will participate in a health career internship in a long-term health care facility or a health care facility of their choice which involves 4 days on the job and 1 day in the classroom. The students will be responsible for documenting their clinical internship hours for their instructor. Students that receive pay for work must provide 20 hours of documentation. Students that volunteer must provide 12 hours of documentation. Students must provide their own transportation beginning the second quarter.

**COURSE: HEATING, COOLING AND CLIMATE CONTROL I**

COURSE NUMBER: H1614A & H1614B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 11-12

PREREQUISITES: College reading level, algebra, physics, drafting, physical science and an understanding of basic electricity are recommended

DESCRIPTION: This program provides competency-based instruction and teaches skills and theory relating to air conditioning, refrigeration and heating. Topics include occupational safety, hand and special tools, tubing applications, soldering, welding and brazing, basic mechanical refrigeration, EPA regulations, refrigerants, recovery, recycling and reclamation, evacuating, pressurizing, leak testing and charging. Fundamentals of electricity, electrical power, circuits, symbols and diagrams, transformers and relays, thermostats, electric motors, capacitors, troubleshooting ACR system electrical circuits, and ACR wiring diagrams will also be covered. Operation and service of electrical and mechanical components will be applied to commercial and domestic systems. The first part of a two-part program, students will develop entry-level skills for employment in a variety of related fields.

**COURSE: HEATING, COOLING AND CLIMATE CONTROL II**

COURSE NUMBER: H1615A & H1615B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 12

PREREQUISITES: Complete Heating, Cooling and Climate Control I with a minimum of a C

DESCRIPTION: Competency based skills and theory relating to air conditioning, refrigeration and heating will be presented. The ability to diagnose mechanical and electrical failure will be developed, along with extensive use of equipment and troubleshooting of domestic and commercial systems. Domestic refrigerator, freezer and window air conditioner service, including mechanical components and functions, electrical components and control devices, domestic ice maker and window air conditioner service will be covered. Psychrometrics for residential and commercial HVACR, standard and high efficiency gas fired furnaces, electrical heating and cooling systems, heat pumps, customer relations and service operations will be presented. Upon completion the student will have developed skills and competencies for entry level employment in related fields including commercial and residential service, as well as, continued education in the industry field.

**COURSE: INDUSTRIAL WELDING I**

COURSE NUMBER: H1616A & H1616B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 11-12

PREREQUISITES: 9<sup>th</sup> grade math level, 12<sup>th</sup> grade reading level and previous drafting classes recommended

DESCRIPTION: The program covers basic competencies and skills in flame cutting, fusion welding, oxygen-acetylene and shielded metal arc welding on carbon steel. Safety, blueprint reading and terminology are also included to help students gain a foundation for entry-level employment.

**COURSE: INDUSTRIAL WELDING II**

COURSE NUMBER: H1617B & H1617B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 12

PREREQUISITES: Complete Industrial Welding I with a minimum of C

DESCRIPTION: Competencies and skills in fabrication techniques, advanced shielded metal arc welding, plasma arc cutting and gas tungsten arc welding on carbon steel, aluminum, and stainless steel are covered. Further study of blueprint reading, welding symbols and basic metallurgy will prepare students for the American Welding Society (AMS) certification test which is administered annually.

**COURSE: IT PROFESSIONALS I**

COURSE NUMBER: H1603A & H1603B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 11-12

PREREQUISITES: Keyboarding or equivalent; 10<sup>th</sup> grade writing and math levels; strong aptitude in computer applications, communications and comprehension; and 12<sup>th</sup> grade reading level

DESCRIPTION: First year students will concentrate on Hardware, Software, and Networking. This includes computer repair and troubleshooting PC's and operating systems. Students will work towards earning their Comptia A+ Certification. Students will also cover networking and learn basic Cisco router and switch configurations and protocols. Students have access to work on their skills 24/7 through the "TestOut" website. Due to the rigorous pace and content, it is recommended that students have a strong interest and aptitude in the computer industry, have good study habits, and be able to work independently. This can be a one- or two-year program.

**COURSE: IT PROFESSIONALS II**

COURSE NUMBER: H1604A & H1604B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 12

PREREQUISITES: Complete IT Professionals I with a minimum of a C

DESCRIPTION: Second year students will learn advanced networking with servers, routing, and switching configurations for Local Area Networks and Wide Area Networks. These students are working toward their certification in Comptia Network+. Students that have achieved their Network+ Certification will have the option of taking the Security+, Server+, or the CCNA Certification for Cisco. Students have access to work on their skills 24/7 through the "TestOut" website.

**COURSE: LAW ENFORCEMENT/CRIME SCENE INVESTIGATION I**

COURSE NUMBER: H1618A & H1618B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 11-12

PREREQUISITES: 10<sup>th</sup> grade reading level, general understanding of algebra and geometry concepts, and an interest in science, law and the social rule.

DESCRIPTION: LE/CSI introduces the criminal justice system with emphasis on crime scene investigation. Topics covered are crime scene and accident investigation, professional ethics and leadership, US Constitutional Law and Missouri Criminal Code. The class is designed for those interested in pursuing careers in law, public safety, corrections, security, and crime scene investigation.

**COURSE: LAW ENFORCEMENT/CRIME SCENE INVESTIGATION II**

COURSE NUMBER: H1619A & H1619B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 12

PREREQUISITES: Complete Law Enforcement/Crime Scene Investigation I with a minimum of a C

DESCRIPTION: LE/CSI II provides second year students with a more in depth understanding of the criminal justice system and how it is applied to the everyday work force with an emphasis on crime scene investigation. Students will learn US Constitutional Law and its applications to the criminal justice system as a social rule.

**COURSE: KC TECH ACADEMY I - Electrical and Fanuc Industrial Robotics**

COURSE NUMBER: H1630A & H1630B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 11-12

PREREQUISITES: 9<sup>th</sup> grade math level, mechanical aptitude and 12<sup>th</sup> grade reading level

DESCRIPTION: Students will learn the fundamentals of AC/DC electrical circuits and evolve through more advanced motor controls. Throughout the year, students will also cover complex troubleshooting, schematics, industrial blueprints, ladder logic, manufacturing 4.0 safety fundamentals, print reading, quality practices, and precision measurement. Students may earn their Certified Production Technician Certification, Fanuc Robot Certification, and OSHA 10 Certification.

**COURSE: KC TECH ACADEMY II - Mechanical Power Systems, Pneumatics/Hydraulics and Fanuc Industrial Robotics**

COURSE NUMBER: H1633A & H1633B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 12

PREREQUISITES: Students will learn cutting-edge technology in the automated manufacturing industry. Students will go in-depth into manufacturing processes and controls of robotics, lean manufacturing, fluid power (hydraulics and pneumatics), rigging, mechanical principles and power systems, lean concepts, and machine tooling to name a few. Students may earn their Certified Production Technician Certification, Fanuc Robot Certification, and OSHA 10 Certification.

**COURSE: TEACHING PROFESSIONS I**

COURSE NUMBER: H1610A & H1610B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 11-12

PREREQUISITES: Pass background check through Family Care Registry, obtain TB test, and 12<sup>th</sup> grade reading level

DESCRIPTION: This course offers training and observation of students at licensed child care centers, preschools, and local public schools through the 8<sup>th</sup> grade. It is highly recommended that students have their own transportation. Attendance, behavior, and academic policies are strictly followed. Unless the student has made other arrangements, first year students will be placed at an observation site close to NCC. Students can earn 169 hours of observation time. Activities will include lesson planning and implementation coursework including: child development, child health, safety, nutrition, learning environments, approaches to learning, CPR & First Aid training, and employability skills. Students must have a "C" average or recommendation from the instructor to return at second semester.

**COURSE: TEACHING PROFESSIONS II**

COURSE NUMBER: H1611A & H1611B

CREDIT: 3.5 Elective, .5 English Language Arts and .5 Technical Math

GRADE LEVEL: 12

PREREQUISITES: Complete Teaching Professions I with a minimum of a C and 12<sup>th</sup> grade reading level.

DESCRIPTION: Second year students continue to gain a greater depth of child development, child health, safety and nutrition, learning environments, approaches to learning, and employability skills. Students learn to teach, utilize lesson plans, develop curriculum, and classroom management skills. Students must complete their off-site training at preschools and/or local public schools through the 8<sup>th</sup> grade. 312 hours of observation time may be earned. Completion of the two-year program offers students the opportunity to earn their Child Development Associate Credential or their Youth Development Credential, which requires 480 observation hours. The Child Development Certification allows students to be lead teachers at the preschool level. Only students meeting competency, behavior, and attendance requirements may participate in a volunteer or paid internship.

# Northland Center for Advanced Professional Studies



Northland Center for Advanced Professional Studies (Northland CAPS) provides high school students in the Northland with a professional, innovative and entrepreneurial education through full immersion in high demand/high skill careers. Northland CAPS students solve real world problems, using business standard software, equipment and are mentored by real employers. Students gain experience working with real businesses, assisting and learning through meaningful projects. Early career professional skills like project management, creativity, business ethics, teamwork and time management are instructed, role modeled and measured. Learning at Northland CAPS is real-time, real-world and hands-on. Emphasis is placed on developing professional skills, such as communication and collaboration, which employers deem highly important to individual success. Northland CAPS is open to students from the school districts of: Excelsior Springs, Kearney, Lathrop, Lawson, Liberty, North Kansas City, Park Hill, Platte County and Smithville.

Students in the Northland CAPS program meet for 2.5 hours, every day, either in the morning or afternoon, securing high school credit and college credit. Northland CAPS courses are facilitated by a certified instructor and are located at the business partner site, e.g. Holland 1916, North Kansas City Hospital, Cerner, Ford Motor Company, Reece & Nichols, Mosaic Life Care, Arvest Bank, Alpha Graphics, J. Price Architecture. Students gain access to high demand/high skill careers working with professionals every day. Learning is driven by the business partner projects, resulting in highly engaged and motivated students. Formal instruction is minimal due to the fact that learning occurs in real-time, while students collaborate across teams and subject areas to complete a project goal. For a complete list of the 200+ business partners and more information about the program, visit the Northland CAPS website at [www.northlandcaps.org](http://www.northlandcaps.org).

## College Credit

Northland CAPS students have access to dual credit opportunities. Credit varies by program. Visit the Northland CAPS website or call NCC at (816) 977-8111 for details.

## Northland CAPS Courses

**COURSE: CAPS BUSINESS ACCELERATOR~~**

COURSE NUMBER: H1657 & H1657B

CREDIT: 3 Practical Art

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: Want to start your own Business? Have an interest in Entrepreneurship? Have some ideas, but not sure where to start? **CAPS Business Accelerator** strand is designed for student associates that are interested in creating a product or service or for those interested in continuing to operate a business. Associates will learn the design process, complete a market feasibility study, meet with mentors and create a pitch for their idea to potential customers or investors. Students are provided with the opportunity to develop a business plan, research marketing strategies and funding sources as well as begin developing your business creating that entrepreneurial mindset. Additionally, an associate will review the challenges and rewards of business management and entrepreneurial careers as well as the strategies necessary to accomplish such choices.

*~~ Qualifies for Weighted Grades Designation*

**COURSE: CAPS DIGITAL MEDIA AND DESIGN~~**

COURSE NUMBER: H1659 & H1660B

CREDIT: 3 Practical Art

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: **CAPS Digital Media and Design** strand is for the creative/artistic student that is interested in exploring careers in Digital Media. The strand is divided into four sub strands: graphic design, digital photography, video production and audio production. Students will meet professionals for each sub strand, work with using professional tools and computer programs, apply skills and techniques on the latest professional editing software and learn the different concepts and professional skills which coincide with different professions. Some career paths of those in this field are: animator, logo designer, digital photographer, sound and mixing engineers, theater performance, video editor, camera operator and director.

*~~ Qualifies for Weighted Grades Designation*

**COURSE: CAPS ENGINEERING AND ADVANCED MANUFACTURING~~**

COURSE NUMBER: H1656 & H1656B

CREDIT: 3 Practical Art

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: **CAPS Engineering and Advanced Manufacturing** course is designed for students who are interested in working hands-on to produce products; developing solutions to complex problems; learning 2D and 3D software programs; and gaining professional skills. Students should be willing to explore different types of engineering and manufacturing positions. Apply lean manufacturing processes that create value for customers and drive out the waste in production. Students experience hands-on, active learning with full immersion in real-world projects sponsored by business partners. Students work in multidisciplinary teams to provide innovative solutions to a company's real-world problems. Engineering projects are tailored to student interest in the fields of chemical, electrical, mechanical, civil, environmental, software/ computer, architectural, advanced manufacturing, robotics, biological, and environmental.

*~~ Qualifies for Weighted Grades Designation*

**COURSE: CAPS GLOBAL BUSINESS AND LOGISTICS~~**

COURSE NUMBER: H1658 & H1658B

CREDIT: 3 Practical Art

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: None

DESCRIPTION: **CAPS Global Business and Logistics** course is designed for students who are interested in an ever-changing world, where business and marketing decisions must adapt to the global economy, many times resulting in global expansion of the business. Students partner with local, regional, national, and international businesses to produce marketing plans, advertising and promotional plans, customer research, social media plans, event management, and strategic plans. Students will be introduced to domestic and global business operations, economic and cultural factors, political systems, and a survey of marketing within the global economy. Students will experience working with mentors and businesses that organize, plan and manage people, facilities, and supplies. You will learn a set of skills that will allow you to effectively streamline the flow of materials, finances, and information for a company.

*~~ Qualifies for Weighted Grades Designation*

**COURSE: CAPS MEDICINE AND HEALTHCARE~~**

COURSE NUMBER: H1654 & H1654B

CREDIT: 3 Science

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: None

**DESCRIPTION: CAPS Medicine and Healthcare** course fully immerses students in North Kansas City Hospital and Liberty Hospital providing unprecedented access to real world experiences in the dynamic field of medicine and healthcare. Alongside some of the region's most experienced medical professionals, students will advance their understanding of human physiology, disease process, medical terminology, patient care, professionalism, ethics, and provide an exploration of many career opportunities in healthcare. In the classroom, students will expand upon principles of human physiology through in-depth case studies of body systems, develop fluency in basic medical language, formulate treatment plans for patients, practice physical assessment skills, and perform patient care and life-saving procedures within a high-fidelity simulation lab. These activities are designed to enhance student analysis and problem-solving skills. Students will receive certification in CPR and AED and complete a CAPStone project for the semester, connecting to mentors in their area of interest to develop a project that is real, relevant, and of service to the community or business partner.

*~~ Qualifies for Weighted Grades Designation*

**COURSE: CAPS TECHNOLOGY SOLUTIONS~~**

COURSE NUMBER: H1655 & H1655B

CREDIT: 3 Practical Art

GRADE LEVEL: 11-12

REQUIRED: No

FEE: None

PREREQUISITE: None

**DESCRIPTION: CAPS Technology Solutions** strand is ideal for students who are interested in developing the professional and technical skills required to forge forward in exploring all areas of technology. Immerse yourself in a professional environment while you tackle and solve real-world problems using a vast array of technology skills. Students interested in technology will perform real world projects for clients utilizing the expertise of diverse guest instructors, mentors and business partners. Strong emphasis is placed on software engineering skills such as programming methodology and problem solving using multiple languages, algorithm design and development, data abstraction and well-documented programming, testing and debugging. Students interested in design will create a wide array of digital assets in a profession-based learning environment, which provides opportunities to collaborate with mentors and business clients.

*~~ Qualifies for Weighted Grades Designation*