

# Morgan High School

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Course Catalog  
2023-2024

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*Courses are listed in alphabetical order or series and receive .5 credit per trimester, unless otherwise noted. Courses may be listed multiple times based upon the type of credit that can be issued.*

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Financial Literacy

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## Core Classes

### Language Arts.....

	<b>College -Bound</b>	<b>Vocational/Direct to work</b>
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<b>10th</b>	<i>English 10 Honors*</i>	<i>English 10</i>
<b>11<sup>th</sup> (Select one)</b>	<i>English 11 Honors*</i> <i>AP English Language**</i>	<i>English 11</i>
<b>12<sup>th</sup> (Select one)</b>	<i>AP English</i> <i>Literature and Composition</i> <i>English 1010**</i>	<i>English 12</i> <i>English Elective</i>

*\*Honors students are expected to maintain the academic demands and to demonstrate the maturity necessary for success in an advanced program.*

*\*\*Students who pass the AP English Language exam or English 1010 may also take English 2010 during 12<sup>th</sup> grade.*

#### **English 9 A, B and C**

A survey English course that will include the following: grammar, vocabulary, composition, and literature. The study of composition will focus on the writing process with emphasis on sentence and paragraph structure and persuasive and argumentative writing. Literature study will include short stories, poetry, and a selected novel. At the beginning of the 1<sup>st</sup> Trimester, students will receive specific study skills and life skills designed to help 9<sup>th</sup> graders become better prepared for the challenging work often presented in high school.

**Credit:** Language Arts

Three Trimesters

Grade: 9

#### **English 9 Honors A, B and C**

College Preparation English is a survey English course that will include the following: grammar, vocabulary, composition, and literature. Composition will concentrate on the writing of an informative paper, a persuasive and argumentative paper. Literature study will include short stories, poetry, and selected novels. Research, project creation, and oral presentation will also be a part of the B section. At the beginning of the 1<sup>st</sup> Trimester, students will receive specific study skills and life skills designed to help 9<sup>th</sup> graders become better prepared for the challenging work often presented in high school.

**Credit:** Language Arts

Three Trimesters

Grade: 9

#### **English 10 A, B and C**

This is a survey English course including grammar, vocabulary, composition and literature. The study of composition will focus on producing creative and well-informed argumentative writing. Literature study will be comprised of short stories, poetry, informational, argumentative and non-fiction pieces and selected novels.

**Credit:** Language Arts

Three Trimesters

Grade: 10

### **English 10 Honors A, B and C**

A college preparation survey English course that will include the following: grammar, vocabulary, composition, and literature. The area of focus will concentrate on reading skills and analysis and argumentative writing. Literature study will include short stories, poetry, drama, and a novel. During the B portion of the class, students will write a research paper.

**Credit:** Language Arts

Three Trimesters

Grade: 10

### **English 11 A, B and C/English 12 A**

This course is an "English Essentials" program for students who need to review basic grammar, reading, and writing. The course includes vocabulary, literature, research, and argumentative writing. Preparation for the reading and English portions of the ACT will be emphasized.

**Credit:** Language Arts

Three Trimesters

Grade: 11

### **English 11 Honors A, B and C/ English 12 Honors A**

A college preparation survey English course that will include the following: grammar, vocabulary, composition, and literature. The students will be required to write research and argumentative papers. Grammar study will concentrate on those areas tested on the ACT. Our study in literature will include selected short stories, poetry, and novels.

**Credit:** Language Arts

Three Trimesters

Grade: 11

### **English 12 B**

This is a "just for seniors" course designed for those who plan to pursue a vocational career or who need a boost in their reading and writing skills. All language, literature, and writing activities are designed to build overall communication skills for the business world and daily life.

**Credit:** Language Arts

One Trimester

Grade: 12

### **Transition English A, B and C**

For students who qualify for the Special Education program. This course focuses on remediation of basic reading and writing skills. Designed to meet students' individual needs. Students can enroll by permission only.

**Credit:** Language Arts (by permission only)

Three Trimesters

Grades: 9-12

**\*Permission required from Special Education Department**

### **AP Language & Composition A, B and C**

Advanced Placement English Language and Composition introduces students to college-level writing and selected readings with an emphasis on effective writing and speaking skills. Students have the opportunity to earn college credit through exam in May.

**Prerequisite:** English Honors

**Credit:** Language Arts

Three Trimesters

Grade: 11

**\*Students should pass A and B to continue to C**

### **AP Literature & Composition A, B and C**

Advanced Placement English is a combination of two AP courses – Language and Literature – that introduces students to college-level coursework through an in-depth study of challenging literary texts. Emphasis is on analysis, argumentation, and writing. Students also have the opportunity to earn college credit through the exams in May.

**Prerequisite:** English Honors

**Credit:** Language Arts

Three Trimesters

Grade: 12

**\*Students should pass A and B to continue to C**



### **WSU / English 1010 EN 1 Introductory College Writing**

English 1010 introduces students to the habits and practices necessary for writing well at the college level by providing them opportunities to write in a variety of styles and genres. Although individual pedagogy may vary from section to section, the course emphasis invention, organization, cohesion, focus and grammatical and mechanical correctness. Because the relationship between writing and reading is a reciprocal one, English 1010 also emphasizes students reading texts that are consistent with the kinds of reading assignments they will be asked to do in other university courses.

**Prerequisite:** 17 or higher on the ACT English portion, or equivalent.

**Credit:** English 1 and WSU 3

One WSU Semester

Grade: 12

**\*Book rental, fees, lab, and material costs will apply**



### **WSU / English 2015 EN 2 Intermediate College Writing**

Intermediate College Writing and Research focuses on combining writing and research skills. It will focus on writing arguments, conducting research, and documenting sources. Students will continue to learn practices of successful academic writing including the writing process, writing for specific audiences, and collaboration with peers. Students completing this course will be able to use an academic library and the internet to successfully identify, access, evaluate and use information resources to support academic success and lifelong learning. This course will fulfill both the English Composition and the Information Literacy General Education core requirements

(Students completing LIBS 1704 will be able to use an academic library and the Internet to successfully identify, access, evaluate and use information resources to support academic success and lifelong learning).

**Prerequisite:** ENGL 1010 with "B" Grade or better, AP Language and Composition or Literature and Composition examination with a score of 3 or better, ACT English and Reading score of 29 or better.

**Credit:** English 1 and WSU 4

One WSU Semester

Grades: 12

**\*Book Rental, fees, lab, and material costs will apply**

## **Language Arts Electives.....**

### **Business Communications I**

Communication skills rank in the top five skills employers are demanding. Business Communication affects all aspects of our lives.

- This introductory course will teach students to communicate in a clear, courteous, concise, complete, and correct manner on both the personal and professional levels
- Competency will be developed in oral, written, interpersonal, technological, and employment communication
- Listening skills will be incorporated throughout the semester

The overriding goal is to provide students with a solid communication base, so they can communicate effectively.

**Pathway:** Accounting and Finance, Business Administration, Business Information Management, and Marketing

**Credit:** CTE or Language Arts Elective

One Trimester

Grades: 10-12 Management,

### **Creative Writing**

This class will focus on developing writing techniques and creative expression. Areas of focus include short story, poetry, autobiographical writing, and drama (plays/movies).

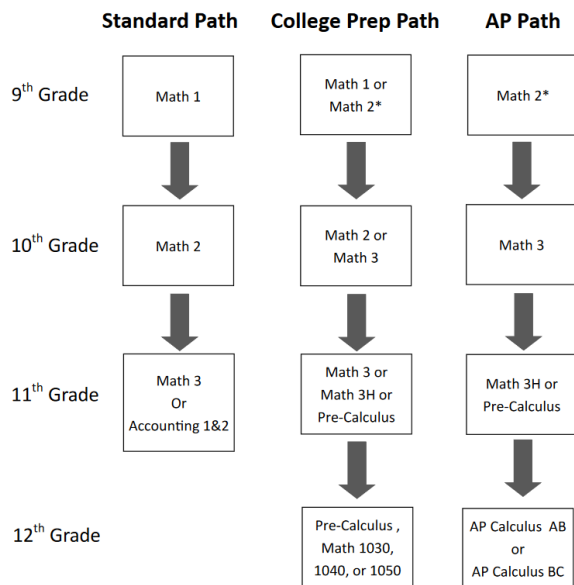
**Credit:** Language Arts

One Trimester

Grades: 10-12

## Mathematics.....

These math classes are listed in the recommended order for students to proceed. Please check with your advisor or a counselor if you are not sure what class you should take.



### **AP** AP Calculus AB- A, B and C

This three-trimester course prepares students to pass the Advanced Placement Calculus Examination to receive college credit. Students learn basic differential and integral calculus of algebraic and transcendental functions and its application to real world problems. These are topics that are typically included in an introductory Calculus I college course.

**Students are encouraged to either rent (\$40.00) or purchase a TI-84 calculator.**

**Prerequisite:** Math III Honors or Math 1050

**Credit:** Mathematics

Three Trimesters

Grades: 11-12

**\*Should pass AP Calculus AB A to continue to AP Calculus AB B, etc.**

### **AP** AP Calculus BC- A, B and C

Students will learn the basics of limits, derivatives, and integrals. These concepts will be applied to find extrema volumes, etc. Other topics will include series, vector and polar functions and their derivatives. This course is similar to a Calculus 1 and 2 course at the college level.

**Students are encouraged to either rent (\$40.00) or purchase a TI-84 calculator.**

**Prerequisite:** Math III Honors or Math 1050 or AP Calculus AB

**Credit:** Mathematics

Three Trimesters

Grades: 12

**\*Should pass Calculus BC A to continue to Calculus BC B, etc.**

### **Secondary Math I A, B, and C**

This course extends mathematical learning from the middle grades. It extends understanding of linear relationships. Later units extend geometric knowledge by using properties and theorems involving congruent figures.

**Students are encouraged to either rent (\$40.00) or purchase a TI-84 calculator.**

**Prerequisite:** 8th grade math

**Credit:** Mathematics

Three Trimesters

Grade: 9

### **Secondary Math II A, B, and C**

This course extends mathematical learning from Secondary Math I. Polynomials are introduced and applications of equations are extended. Quadratics are introduced. Geometric learning is also expanded.

**Students are encouraged to either rent (\$40.00) or purchase a TI-84 calculator.**

**Prerequisite:** Secondary Math I

**Credit:** *Mathematics*

*Three Trimesters*

*Grade: 10*

### **Secondary Math III A, B, and C**

Students in Math III will focus on applying the accumulation of learning that they have from their previous courses.

They will apply methods from probability and statistics, expand their repertoire of functions to include polynomial, rational, and radical functions. They will expand their study of right triangle trigonometry and will bring together all of their experience with functions and geometry to create models and solve contextual problems.

**Students are encouraged to either rent (\$40.00) or purchase a TI-84 calculator.**

**Prerequisite:** Secondary Math II

**Credit:** *Mathematics*

*Three Trimesters*

*Grade: 11*

### **Secondary Math III Honors A, B, and C/Pre-Calculus A, B, and C**

Students in Math III Honors will focus on applying the accumulation of learning that they have from their previous courses. They will apply methods from probability, expand their repertoire of functions to include polynomial, rational, and radical functions. They will expand their study of right triangle trigonometry and will bring together all of their experience with functions and geometry to create models and solve contextual problems. Additional topics in pre-calculus are also explored.

**Students are encouraged to either rent (\$40.00) or purchase a TI-84 calculator.**

**Prerequisite:** *Secondary Math II Honors / Math III*

**Credit:** *Mathematics*

*Three Trimesters*

*Grade: 11*

### **Transition Math I A, B, and C**

For students who qualify for Special Education Services. This course explores basic math concepts including decimals, fractions, percent's, and consumer mathematics. This course is designed to meet students' individual needs.

**Prerequisite:** 8th grade math

**Credit:** *Mathematics (\*Permission required from Special Ed Department)*

*Three Trimesters*

*Grades 9-12*



### **USU / Intro to Statistics 1040 A and B (Math 1040)**

This is college mathematics that will be taught at the high school.

Statistics is the collection, display, and analysis of data. Introduction to basic concepts and methods used in statistical data analysis; Emphasis on sampling design, descriptive statistics, linear regression and correlation sampling distributions hypothesis testing and confidence intervals. Students will need a scientific calculator with statistical capabilities. TI-84 is the preferred calculator and will be used as a model in class. For students majoring in Communications, Social & Behavioral Sciences, Fine Arts, Liberal Arts and Health Sciences.

**Prerequisite:** C average or better in each course: Secondary Math I, Secondary Math II, and Secondary Math III or ACT score of 19

**Credit:** *Mathematics*

*Concurrent Enrollment with USU (3 Credits)*

*Two Trimesters*

*Grades: 11-12*

**\*Fee: Admission \$40.00 / Tuition \$5.00 per credit**



### **WSU / Math 1030 A and B (MATH 1030)**

This is college mathematics that will be taught at the high school.

Topics from mathematics convey to the student the beauty and utility of mathematics, and which illustrate its application to modern society. Topics include geometry, statistics, probability, and growth and form.

Students will need a scientific calculator. TI-30XS is the preferred calculator and will be used as a model in class.

Please note that graphing calculators are not allowed on the midterms or final.

For students majoring in humanities, fine arts, liberal arts, and communication.

**Prerequisite:** C average or better in each course: Secondary Math I, Secondary Math II, and Secondary Math III, and an ACT Math Score of 21 or higher on the math portion of the ACT and Math III, or pass ALEKS Test with a score of 46 or above and Math III.

**Credit:** Mathematics

*Concurrent Enrollment with WSU (3 credits)*

*Two Trimesters*

*Grades: 11-12*

**\*Fee: Admission \$40.00 / Tuition \$5.00 per credit**



### **WSU / College Algebra 1050 A and B (MATH 1050)**

This is college algebra that will be taught at the high school.

This course will study real and complex number systems, graphs, inverse functions, polynomial and rational functions, exponential and logarithmic functions, systems of equations, elementary matrix algebra, and partial fractions. Students will need a scientific calculator. TI-36 Pro is the preferred calculator and will be used as a model in class. Please note that graphing calculators are not allowed on the midterm or final.

For students majoring in science, technology, engineering, math, and business.

**Prerequisite:** ACT Math Score of 23 or better or pass ALEKS Test with a score of 60 or above. Math III.

**Credit:** Mathematics

*Concurrent Enrollment with WSU (3 credits)*

*Two Trimesters*

*Grades: 12*

**\*Fee: Admission \$40.00 / Tuition \$5.00 per credit**

## **Mathematic Electives.....**

### **Accounting I**

Accounting may be the best route to a successful business career because accounting is the language and basic tools of business. Students will develop skills beginning with an understanding of the basic elements and concepts of double entry accounting systems related to a service business organized as a sole proprietorship. Skills include:

- Understanding the accounting equation
- Analyzing business transactions
- Entering transactions in journals
- Posting to ledgers
- Compiling end-of-period financial statements
- Preparing closing entries
- Managing and protecting cash

*It is strongly recommended to register for Accounting II after this course.*

**Pathway:** Accounting and Finance, Business Administration, Business Information Management, Marketing

**Credit:** Mathematics Elective or CTE

*One Trimester*

*Grades: 10-12*

### **Accounting II**

This course is strongly recommended for any student interested in anticipating a career in any business, especially the finance areas. This course will teach you how to financially evaluate an existing company using accounting ratios. Students will develop advanced skills that build upon those acquired in Accounting I. Students continue applying concepts of double-entry accounting systems related to a merchandising business. Additional accounting skills will be developed, including:

- Preparing and journalizing payroll records

- Calculating and recording adjusting entries
- Interpreting financial information
- Exposure to automated accounting procedures is strongly encouraged

**Prerequisite:** Accounting I

**Pathway:** *Accounting and Finance*

**Credit:** *Mathematics Elective or CTE*

*One Trimester*

*Grades: 10-12*

### **Mathematics of Personal Finance**

Mathematics of Personal Finance is designed for students in their junior or senior year of high school. The course represents content from mathematics and personal finance that are essential for students who will assume roles as consumers, money managers, and members of a global workforce. This course can replace Math III with a written parent request.

**Prerequisite:** Secondary Math II

**Credit:** *Mathematics*

*Three Trimesters*

*Grade: 11-12*

### **Computer Programming 1**

An introductory course in program engineering and applications. The course introduces students to the fundamentals of computer programming. Students will learn to design, code, and test their own programs while applying mathematical concepts. Teachers introduce basic coding concepts and problem-solving skills.

**Pathway:** *Cybersecurity, Programming and Software Development*

**Credit:** *CTE or Science or Digital Studies or Math Elective*

*One Trimester*

*Grades: 9-12*



### **Computer Programming 2 CE (CS 1400)**

This course introduces students to more advanced programming concepts. Students will learn to create more powerful programs within a specific programming language: Python.

**Prerequisite:** Computer Programming 1

**Pathway:** *Programming and Software Development*

**Credit:** *CTE or Science or Digital Studies or Math Elective*

*One Trimester*

*Grades: 9-12*

**\*Fee: WSU Registration \$30.00/Tuition \$20**



## Science.....

### Science Courses Suggestive Planning

9th Grade	One core science class without a prerequisite <ul style="list-style-type: none"> <li>• Earth Science, Honors Earth Science, Biology, or Honors Biology</li> </ul>
10th Grade	One core science class without a prerequisite OR One core science class that the prerequisite was completed in 9th grade.
11th Grade	Any core or elective science (assuming prerequisites have been completed)
12th Grade	For those going into a science-based field or are college bound, it is best to take at least one core or elective science course (assuming prerequisites have been completed)  For those going into non-science-based fields, all science credits should be done.

\*To graduate, every student needs 2 full credits (4 trimesters) of core science credit (may include any of the following: Earth Science, Biology, Chemistry, Physics, any AP science course) Every student must also complete 1 full credit (2 trimesters) of elective science credit (may include AG Bio, Computer Science Principles CE, Anatomy and Physiology, Material Science, Veterinary Assistant, or any core science class above)

\*Certain science classes have prerequisites:  
AP Chemistry- Prerequisite Honors Chemistry  
AP Biology- Prerequisite Honors Biology  
AP Physics 2- Prerequisite Physics or AP Physics 1

### Interest Paths Suggestions:

The Morgan High School Science Department believes that all science classes are important and are challenging in their own ways. The suggested pathways are based on potential career interests. We want students to have the basic science knowledge needed for whatever career they want to pursue. The level to which they choose to pursue each is up to them. (Students who are college bound should consider Honors and/or AP level courses.)

#### **Agricultural** (Ranching and Farming):

Ag Science, Biology or Ag Biology, Earth Science

#### **Bio-Engineering:**

Biology, Chemistry, Physics

#### **Environmental Engineering:**

Biology, Earth Science, Environmental, Physics, Wildlife

#### **Industrial** (Welding, Auto mechanics, Construction):

Chemistry, Material Science, Physics

#### **Mechanical, Structural, Civil, or Chemical Engineering:**

Chemistry, Material Science, Physics

#### **Medical Fields:**

Anatomy and Physiology, Biology, Chemistry, Medical Terminology

#### **Veterinary Sciences:**

Ag science, Biology, Chemistry, Wildlife Biology,

#### **Wildlife, Forest Service, Land Management:**

Biology, Earth Science, Environmental, Wildlife

#### **Non-Science based careers** (Should have a well-rounded general science knowledge):

Biology, Earth Science, Chemistry or Physics

### **Agricultural Science I A and B**

This class is specifically for Freshmen. Students are introduced to all aspects of agriculture including: plants, animals, natural resources, food, and opportunities in FFA.

**Pathway:** *Most Agriculture, Food, and Natural Science*

**Credit:** *CTE or Science Elective*

*Two Trimesters*

**Grades:** *9-12*

### **Biology A and B**

This course will explore general biological concepts such as biochemistry, photosynthesis, respiration, cell structure and function, basic and applied genetics, evolution, classification, and ecology. Students will analyze data, investigate structure and function, and explore cause and effect relationships. Students in the exploration path of science should take this course.

**Credit:** *Science Core*

*Two Trimesters*

**Grades:** *9-12*

### **Biology Honors A, B, and C**

Honors Biology explores the patterns, processes, relationships, and the environment of living organisms. Students will learn about interactions with organisms and the environment, cellular structure and function, genetic patterns, and evolutionary change. In this course students will gain laboratory skills as they perform many exploratory investigations and complete hands on activities. This is a college prep class that is demanding and extensive. Extra study time outside of class is expected.

**Credit:** *Science Core*

*Three Trimesters*

**Grades:** *10-12 (9th Grade for AP path only)*



### **AP Biology A, B, and C**

Students will experience a very in-depth, comprehensive coverage of all life science topics such as biochemistry, cell biology, heredity, natural selection, and ecology. Successful completion of Honors Biology is required as a prerequisite. AP Biology is a college level course that requires time spent studying daily outside of class. Extensive labs required by the College Board will allow students to develop specific science skills. College credit can be earned through the AP Exam.

**Prerequisite:** *Biology Honors A, B and C*

**Credit:** *Science Core*

*Three Trimesters*

**Grades:** *10-12*

### **Biology-Agricultural A and B**

This is a state approved biology science course that uses agricultural applications to teach biology. This course meets the requirements for biology science credit using plant and animal concepts.

Students take the same state core test as in other biology classes. **Students planning on being FFA members should sign up for this Biology course.**

**Pathway:** *All Agriculture, Food, and Natural Science*

**Credit:** *Science Core or CTE*

*Two Trimesters*

**Grades:** *10-12*

### **Chemistry A and B**

Chemistry is a two-trimester introductory chemistry course that introduces students to the language, symbols, laboratory skills and concepts of chemistry. Students will learn about the structure and properties of atoms and molecules, chemical and physical changes, and energy in chemical systems. This class will not satisfy the AP Chemistry prerequisite.

**Credit:** *Science Core*

*Two Trimesters*

**Grades:** *10-12*

### **Chemistry Honors A, B, and C**

Honors Chemistry is a three-trimester college prep chemistry course that introduces students to the language, symbols, laboratory skills and concepts of chemistry. Students will learn about the structure and properties of atoms and molecules, chemical and physical changes, and energy in chemical systems. This course will help prepare students for higher level chemistry through the use of hands-on lab experiments and chemical problem solving. Good study habits and math skills will help students be successful in this class.

**Prerequisite:** Secondary Math I

**Credit:** Science Core

Three Trimesters

Grades: 10-12



### **AP Chemistry A, B, and C**

AP Chemistry is a college level chemistry course equivalent to two semesters of General Chemistry, and involves rigorous labs and chemical problem solving. Successful completion of an Honors Level Chemistry class is required as a prerequisite for AP Chemistry. Students in AP Chemistry will review some content from Honors Chemistry from a more sophisticated perspective and will also study more advanced topics such as kinetics, equilibrium, and electrochemistry. Work in the lab will be a regular part of the lessons, and students will keep a lab notebook to record their data and analysis. Time spent outside of class is required. College credit may be earned through the AP exam.

**Prerequisite:** Chemistry Honors

**Credit:** 1.5 Science Core

Three Trimesters

Grades: 11-12



### **Computer Science Principles CE (CS 1030)**

**College Credit Available: \$15 Tuition**

Computer Science Principles is a new course that follows a project to develop a computer science source that seeks to broaden participation in computing and computer science. The course places emphasis on the principles of computer science rather than just programming. Big ideas and concepts include:

1. Computing is a creative activity.
2. Abstraction reduces information and detail to facilitate focus on relevant concepts.
3. Data and information facilitate the creation of knowledge.
4. Algorithms are used to develop and express solutions to computational problems.
5. Programming enables problem solving, human expression, and creation of knowledge.
6. The Internet pervades modern computing.
7. Computing had global impacts.

Note: CSP course is currently a 1.0 credit course. There is a need to collect the most relevant concepts and include them into a trimester of the course to match the Digital Studies requirement.

**Pathway:** Cybersecurity, Information Technology Systems, Programming and Software Development, Web Development

**Credit:** CTE or Science or Digital Studies

One Trimester

Grades 9-12



### **Computer Programming 2 CE (CS 1400)**

**College Credit Available: \$20 Tuition**

This course builds on the concepts introduced in Computer Programming 1. This course introduces students to more complex data structures and their uses, including sequential files, arrays, and classes. Students will learn to create more powerful programs within a specific programming language including: Java, Python C++, C#, Swift.

**Prerequisite:** Computer Programming 1 or Computer Science Principles or Instructor Approval

**Pathway:** Programming and Software Development

**Credit:** CTE or Science or Digital Studies

One Trimester

Grades 10-11

### **Earth Science A and B**

Students will investigate the processes and mechanisms that run the solar system and things on Earth. This class includes labs, data analysis, and exploration activities. This course is designed to give a broad overview of systems and their functions.

“**A**” Will focus on astronomy and the forces that run it, and Earth’s structure and the geological processes that shape it.

“**B**” Will focus on the movement of fluids and energy across Earth’s surface and explore the causes of ocean currents, weather events, and climate patterns. Focus is given to topics and skills that promote higher level thinking, problem solving, science communication, understanding or underlying science principles, and preparation for participation in future higher-level science courses.

Good course to take before Physics or Chemistry

**Credit:** Science Core

Two Trimesters

Grades: 9-12 (9<sup>th</sup> and 10<sup>th</sup> grade recommended)

### **Earth Science Honors A and B**

Honors Earth Science is a two-trimester lab-based program that helps students to gain lab skills and experience while exploring deeper into Astronomy, Geology and Geophysics, Hydrology, and Meteorology. Topics include interactions between matter and energy in the universe and how these affect our planet, processes affecting the internal structure and surface of Earth, the movement of energy and fluids across Earth’s surface causing ocean movement, weather events, and climate patterns, and the effects on Earth life. Focus is given to topics and skills that promote higher level thinking, problem solving, science communication, understanding of underlying science principles, and preparation for participation in future higher-level science courses.

Student should be self-motivated, have a high level of personal accountability, good study habits, and ability to complete some extra studies on own. This course is recommended for students who are interested in investigating or pursuing future classes or careers in the following areas: Astronomy, Geology, Physics, Chemistry, Mechanics, Engineering, and Environmental Science.

**Credit:** Science Core

Two Trimesters

Grades: 9-12 (9<sup>th</sup> and 10<sup>th</sup> grade recommended)

### **Physics A and B**

Introductory level Physics course. Physics describes the relationships of objects and uses math to make predictions of their interactions. Physics is the science that focuses on the structures and motions of objects in our Universe. This ranges from the smallest subatomic particles to the biggest Galactic Clusters. This course will start investigations into the following topics: Motion, Forces, Momentum, Energy, Mechanical Advantage, Electricity, Waves, Sound, and Light

**Prerequisites:** Secondary Math I A, B, and C

**Credit:** Science Core

Two Trimesters

Grades: 10-12



### **AP Physics 1 A, B, and C**

Algebra-based introductory college level physics course. This course will focus on Mechanics and Newtonian Physics. Students cultivate their understanding of Physics through inquiry-based investigations as they explore these topics: Kinematics, Dynamics, Circular Motion, Gravitation, Momentum, Simple Harmonic Motion, Torque, and Rotational Motion. College credit may be earned through the AP exam. **Completion of Regular Physics is NOT required to take this course.**

**Prerequisites:** Math 1 and successful completion of One Core Science Class

**Credit:** Science Core Three Trimesters

Three Trimesters

Grades: 10-12



### **AP Physics 2 A, B, and C**

Algebra-based introductory college level physics course. This course will focus on Modern Physics. Students cultivate their understanding of Physics through inquiry-based investigations as they explore these topics: Fluid Dynamics, Thermodynamics, Electric Forces, Circuits, Magnetism, Optics, and Atomic Physics. College credit may be earned through the AP exam.

**Prerequisites:** AP Physics 1 A, B, and C

**Credit:** Science Core  
**Three Trimesters**  
**Grades:** 11-12

### **Science Electives.....**

#### **Animal Science I A and B**

This course exposes students to a wide range of scientific principles such as genetics, anatomy, physiology, nutrition, diseases, pests, reproduction, behavior and management practices of all kinds of animals. Career opportunities and educational preparation are also examined. The students will have many hands-on activities, including dissections that will help them relate what they have learned to the real life around them. There will be FFA related experiences throughout the trimester.

**Pathway:** Agriculture Production Systems, Animal and Veterinary Science

**Credit:** Science Elective **or** CTE

Two Trimesters

Grades: 10-12

#### **Animal Science II A and B**

**(Course offered every other year opposite Equine Science I and will be taught 2024/2025 school year)**

Students will develop knowledge and skills in a wide range of animal agriculture principles, including anatomy, and physiology, health maintenance waste disposal, and facilities. The efficient production and management of selected animal enterprises are covered, including beef, and dairy cattle, swine, sheep and goats, poultry, and equine. Practices in veterinary medicine and those associated with small animal care included. Students enrolled in the class will be highly encouraged to be involved with the FFA.

**Pathway:** Agriculture Production Systems, Animal and Veterinary Science

**Credit:** Science Elective **or** CTE

Two Trimesters

Grades: 11-12

#### **Equine Science I A and B**

**(Course offered every other year opposite Animal Science II and will be taught 2023/2024 school year)**

This course prepares students to care for horse equipment; to train horses for various work and athletic or entertainment roles; and to manage horse training, breeding, feeding and housing program and facilities.

**Pathways:** Animal and Veterinary Science

**Credit:** Science Elective, CTE **or** Elective

One Trimester

Grades: 10-12

#### **Material Science A and B**

This class will use the general application of math and science to analyze and study the characteristics and behavior of different types of materials such as composites (light-weight and high-strength products such as materials used in the making of aircrafts), ceramics (glass), and polymers (plastics), and metals. The material taught in this class will be done through labs and discussions. It is a great introductory course for those students who are interested in science, technology, engineering, mathematics, or manufacturing. This will be a hands-on learning environment.

**Pathway:** Material Science

**Credit:** Science Elective **or** CTE

Two Trimesters

Grades: 10-12

#### **Medical Anatomy and Physiology A and B**

This course sets the foundation for students who are considering the pursuit of a health-related career. Structure, function, and activities of the human body are discussed. Each body system's anatomy and associated physiology are covered in moderate detail. Labs, including dissections of various organs and a visit to the cadaver lab, will be required for successful course completion.

**Prerequisite:** Biology A and B **or** Biology Honors (A, B, and C) **or** Agricultural Biology A and B

**Pathway:** Health Science

**Credit:** Science Elective or CTE  
Two Trimesters  
Grades: 11-12



### **Advanced Anatomy and Physiology A and B (WSU HS 1110/1111)**

Students who complete this course will have a head start on their healthcare careers. Advanced Human Anatomy and Physiology is a two-trimester course that studies the body system's anatomy and associated physiology at a college level. Course module topics include: the atomic and molecular levels of organization, cell biology and metabolism, microbiology, and the integumentary, skeletal and muscular body systems in part A. Part B module topics include: the nervous, endocrine, cardiovascular (blood), cardiovascular (heart and blood vessels), respiratory, digestive, urinary, and reproductive body systems. Labs, including dissections of various organs and a visit to the cadaver lab, will be required for successful course completion. Students should expect to spend approximately 12 hours (including class time) per week to receive a quality grade.

**Prerequisite:** Medical Anatomy and Physiology / Medical Terminology are highly recommended but not required

**Pathway:** Health Science

**Credit:** CTE (1 each section) and WSU (4 each section)

Two Trimesters

Grades: 11-12

**\*Fee: \$20 Tuition / \$30 Visible Body account require**

### **Medical Terminology**

Students will study and understand the Greek- and Latin-based language of medicine and healthcare. Emphasis is placed upon word roots, suffixes, prefixes, abbreviations, symbols, anatomical terms, and terms associated with movements of the human body. This course also stresses the proper pronunciation, spelling, and usage of medical terminology. This class is helpful to anyone considering going into the healthcare field.

**Pathway:** Health Science

**Credit:** Science Elective or CTE

One Trimester

Grades: 10-12



### **Science of Human Nutrition (WSU HLTH 1020 LS)**

Human nutrition is the platform to study the nature and integration of science across disciplines and in society through applied problem solving and data analysis. Nutritional balance and good health are explored in context of the levels of organization, metabolism and homeostasis, genetics and evolution, and ecological interactions.

**Pathway:** Food Science, Dietetics & Nutrition and Hospitality & Tourism

**Credit:** CTE 1 or Science Elective and WSU 3

One WSU Semester

Grades: 10-12 (Enrollment priority given to seniors)

**\*Fee: Book rental, fees, lab, and material costs will apply**

### **Veterinary Assistant I A and B**

This course provides the opportunity for students to explore different avenues of the veterinary profession., Students will be exposed to veterinary science and principle which will include, anatomy, physiology, chemistry. animal health and disease, dentistry, and laboratory procedures. Students will provide hands on care as they develop skills in the areas of surgical assisting, bandaging, wound care, oral care, and general nursing care.

**Prerequisite:** Biology or Bio-Ag Science A

**Pathway:** Animal and Veterinary Science

**Credit:** CTE or Science Elective

Two Trimesters

Grades: 11-12

**\*Fee supplies \$10.00**

## **Wildlife Biology A and B**

Wildlife Biology is the study of wild plants and animals, their habitats, and their conservation. Focus will be placed on understanding ecological processes and environmental factors, identifying organisms and their functions in their environment, data collection and analysis of wildlife populations, and human impacts and management on wildlife populations.

**Prerequisite:** Successful completion of all trimesters of a life science (biology) AND physical science (earth science or chemistry)

**Credit:** Science Elective

Two Trimesters

Grades:10-12



## **WSU / Object-Oriented Programming (CS 1410)**

An introduction to the C++ language. Topics will include data types, control structures, functions, pointers, arrays, I/O streams, classes, objects, encapsulation, overloading, inheritance and use of these concepts in problem solving.

**Prerequisite:** Computer Programming 2 CE (CS 1400)

**Pathway:** Programming and Software Development

**Credit:** Science or CTE 1 and WSU 4

One WSU Semester

Grades: 11-12 (Enrollment priority given to seniors)

**\*Book rental, fees, lab, and material costs will apply**



## **WSU / Introduction to Data Structures and Algorithms (CS 2420)**

General principles of common data structures and design of efficient algorithms. Topics include arrays, linked-lists, stacks, queues, trees, graphs, tables, storage and retrieval structures, searching, sorting, hashing, and algorithmic analysis. Emphasis will be on abstraction, efficiency, re-usable code, and object-oriented implementation.

**Prerequisite:** Object Oriented Programming CS 1410

Pathway: Programming and Software Development

**Credit:** Science or CTE 1 and WSU 4

One WSU Semester

Grades: 11-12 (Enrollment priority given to seniors)

**\*Book rental, fees, lab, and material costs will apply**

## **Social Studies.....**



### **AP European History A, B and C**

The study of European history since 1300 introduces students to cultural, economic, political, and social developments that played a fundamental role in shaping the world in which they live. In addition to providing a basic narrative of events and movements, the goals of the AP program in European History are to develop (a) an understanding of some of the principal themes in modern European History, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing.

**Credit:** Social Studies or Social Studies Elective (this class counts as World History credit)

Three Trimesters

Grades: 10-12

**\*Fee: AP test (administered at the end of the year - can give college credit) \$84.00.**



### **AP US History A, B, & C**

This college-level course provides an in-depth study of American history from pre-Columbian times in the present day. The course is designed to help students develop a deep understanding of the political, social, economic, and cultural forces that have shaped the United States. Throughout the course, students will examine historical documents, primary sources, and secondary sources to analyze and evaluate historical events, movements, and themes. Students should expect an intensive course of study. College credit may be attained by successfully passing the AP US History exam at the end of the year.

**Prerequisite:** AP Prep Geography and World

**Credit:** Social Studies or Social Studies Elective (this class counts as World History credit)

Three Trimesters

Grades: 10

**\*Fee: AP test (administered at the end of the year - can give college credit) \$84.00.**

## **AP** AP Prep Geography & World History

Students will study world history and examine the relationship between geography and history in the civilizations of Asia, Africa, Europe, and the Americas. Throughout the year, students will develop an understanding of historically significant events and people. Students will conduct historical research and use primary and secondary source documents to express conclusions through formal writing, and grow their ability to think critically.

**Students enrolled in this course should be prepared for a reading and writing intensive course. These skills prepare students for AP European History course, other AP courses, or concurrent enrollment (college) courses.**

**Credit: .5 Geography and 1 World History (.5 required and .5 elective)**

Three Trimesters

Grades: 9-12 (9-10 Recommended)

## **Government and Citizenship**

This course will foster a vision of why we enjoy so much personal freedom and prosperity in America. It will explain the different systems of government throughout the world and the different economic principles underlying each type of government – illustrating the great virtues of our republic. Students will gain sufficient understanding of the principles of our nation's founding documents so that they may become responsible citizens. The Basic Civics exam required for graduation will be administered in this class.

**Credit: Social Studies**

One Trimester

Grade: 12

## **US History A and B**

**A-** Includes events in United States history from the Age of Exploration through Reconstruction, emphasizing the 18th and 19th centuries. Topics include: European exploration and colonization, the War for Independence, nation building, expansion, the Civil War, and Reconstruction.

**B-** Addresses the making of modern America, highlighting the events in United States history from the late Industrial Revolution to modern times. Topics include: Industrial Revolution, imperialism, and foreign affairs, the World Wars, the Great Depression, the Cold War, and modern political history.

**Credit: Social Studies**

Two Trimesters

Grade: 11

## **World Geography**

Students will study the world in terms of environment, government, location, climate, population, culture, industry, agriculture, terminology, map reading, soils, vegetation, and physical features.

**Credit: Social Studies**

One Trimester

Grade: 9

## **World History Ancient**

The study of World Civilizations emphasizes the increasing interrelationships over time of the world's people. This course will focus on the various relations in the world and includes all aspects of human activity: political, economic, social, philosophical and religious, scientific and technological, and artistic. This class will survey human history from ancient Mesopotamia to the Late Middle Ages. It is recommended that students take this class or World Civilizations Modern during their sophomore year.

**Credit: Social Studies**

**AP European History can be taken for World History credit**

One Trimester

Grade: 10-12 (10th recommended)

## **World History Modern**

The study of World Civilizations emphasizes the increasing interrelationships over time of the world's people. This course will focus on the various relations in the world and includes all aspects of human activity: political, economic,



social, philosophical and religious, scientific and technological, and artistic. This class will survey human history from the Renaissance to the Modern Era. It is recommended that students take this class or World Civilizations Ancient during their sophomore year.

**Credit:** Social Studies

**AP European History can be taken for World History credit**

One Trimester

Grade: 10-12 (10th recommended)



### **WSU / Political Science 1100 (POLS 1100)**

A study of American constitutional democracy at the national level, including political institutions, interests, ideals, and the processes through which policies are formulated and implemented.

**Credit:** Social Studies or Government & Citizenship 1 and WSU 3

One WSU Semester

**Grades:** 11-12 (Enrollment priority given to seniors)

**\*Book rental, fees, lab, and material costs will apply**

**Students need both HIST 2700 and HIST 2710 (below) to fill the requirements for the American Institutions Class**

### **Social Studies Elective.....**

#### **Criminal Justice**

This course is designed to give students an introduction to the American Criminal Justice System. The course will focus on the following topics: Laws, Individual Rights, Policing, Courts, and Correction. This course will explore theories in criminology and criminal behavior, survey forensic science topics, examine infamous criminal and civil cases, and focus on the interrelationship among national, state, and local levels of the criminal justice system. The course will also focus on career related topics and include guest speakers and/or possible field trips.

**Credit:** Social Studies Elective

One Trimester

Grades: 11-12 (10<sup>th</sup> grade with instructor approval)

#### **Psychology I**

This course introduces students to the scientific study of why we do what we do. We will look at the behavior and mental processes of humans and other animals. Topics that may be explored include research methods, biological basis of behavior, psychological disorders and their treatment, sensation and perception, states of consciousness, memory, sleeping, language, learning, intelligence, hypnosis, dreams, personality, human development and social psychology.

**Credit:** Social Studies Elective

One Trimester

Grades: 11-12

#### **Psychology I/ Sports Psychology**

Students will examine the brain's role in sports. Looking at different aspects of mental toughness and understanding how to look past previous shortcomings and move past those and achieve success on and off the field. Students will also study the belief that toughness depends on emotional flexibility, responsiveness and strength, and demonstrates itself in an athlete's ability to perform consistently in the upper ranges of his or her skill. We will discuss in detail the problems of stress, innate in any competitive endeavor, recovery from it and how to strike a balance between stress and recovery. **Students must be a member of an athletic team or involved in a competition group at MHS to enroll in this class.**

**Credit:** Social Studies Elective

One Trimester

Grades: 11-12

#### **Psychology II**

This course will expand a student's understanding of human behavior by studying deeper into social psychology, abnormal psychology, states of consciousness, memory and exploring psychology as a profession.

**Prerequisite:** Psychology I or Psychology I / Sport Psychology

**Credit:** Social Studies Elective

One Trimester

Grades: 11-12

### **US History Through Film**

Films have been created which cover much of American history. The US History Through Film curriculum offers students a unique way to view American History through the Hollywood lens. Through film analysis, students will gain new insight into the historical events that occurred from the American Revolution through recent US history. This course will look at how various aspects of history are portrayed in films and contrast that with "how it really was." Both the filmmaker and historian share common methodology. They study appropriate sources, then select and arrange facts to tell their story. It is the historian's task to separate fantasy from fact. A major goal of this course is to determine what is valid in contemporary films and historical dramas. In addition to learning historical accounts, students will explore character development, conflict, theme, symbolism, foreshadowing, and geographical / social / cultural settings.

**Credit:** Social Studies Elective

One Trimester

Grades: 11-12



### **WSU / Introductory Psychology 1010 (PSY 1010)**

This course is taught online. This course introduces the scientific study of human behavior.

**Credit:** Social Studies 1 and WSU 3

One WSU Semester

Grades: 11-12 (Enrollment priority given to seniors)

**\*Book rental, fees, lab, and material costs will apply**

## **Digital Studies.....**



### **Business Office Specialist / Business Office Specialist CE (WSU WEB 1700)**

**College Credit Available: \$15 Tuition**

This course prepares students for immediate employment in multiple office settings. Students will learn how the Microsoft Suite allow businesses to complete day to day activities. Students will have the opportunity to obtain a Microsoft Office Specialist industry certificate through Microsoft and Certiport. The certification is recognized worldwide as the best method for employers to validate computer skill proficiency.

- Course applies advanced concepts and principles using word processing (Microsoft Word), spreadsheet (Microsoft Excel), databases (Microsoft Access), and electronic presentation software (Microsoft PowerPoint)
- Integrate applications learned, discover connections with technology, and apply skills to other classes
- This course builds on skills included in Digital Literacy and is not an introductory course. Must have foundational knowledge of Microsoft Office

**Pathway:** Business Information Management

**Credit:** CTE or Digital Studies

One Trimester

Grades: 9-12



### **Computer Science Principles CE (CS 1030)**

**College Credit Available: \$20 Tuition**

Computer Science Principles is a new course that follows a project to develop a computer science source that seeks to broaden participation in computing and computer science. The course places emphasis on the principles of computer science rather than just programming. Big ideas and concepts include:

1. Computing is a creative activity.
2. Abstraction reduces information and detail to facilitate focus on relevant concepts.
3. Data and information facilitate the creation of knowledge.
4. Algorithms are used to develop and express solutions to computational problems.
5. Programming enables problem solving, human expression, and creation of knowledge.
6. The Internet pervades modern computing.
7. Computing had global impacts.

Note: CSP course is currently a 1.0 credit course. There is a need to collect the most relevant concepts and Computer Programming 1

An introductory course in program engineering and applications. The course introduces students to the fundamentals of computer programming. Students will learn to design, code, and test their own programs while applying mathematical concepts. Teachers introduce basic coding concepts and problem-solving skills.

**Pathway:** *Cybersecurity, Programming and Software Development*

**Credit:** *CTE or Digital Studies or Science Elective or Math Elective*

*One Trimester*

*Grades: 9-12*

### **Computer Programming 1**

An introductory course in program engineering and applications. The course introduces students to fundamentals of computer programming. Student will learn to design, code, and test their own programs while applying mathematical concepts. Students will be introduced to coding concepts and problem-solving skills (debugging) as they create computer programs with C++, C#, Java, Python, or JavaScript. Students will be also introduced to more complex data structures and their uses, including arrays and classes. Students will learn to more create powerful programs.

**Pathway:** *Cybersecurity, Information Technology Systems, Programming and Software Development*

**Credit:** *CTE or Science or Digital Studies or Math Elective*

*One Trimester*

*Grades: 9-12*



### **Computer Programming 2 CE (CS 1400)**

This course introduces students to more advanced programming concepts. Students will learn to create more powerful programs within a specific programming language: Python.

**Prerequisite:** Computer Programming 1

**Pathway:** *Programming and Software Development*

**Credit:** *CTE or Digital Studies or Science Elective or Math Elective*

*One Trimester*

*Grades: 9-12*

**\*Fee: WSU Registration \$30.00/Tuition \$20**

### **Digital Print Design- Advanced Print**

This course is a second-year advanced print course within the digital pathway where students will develop advanced skills in design, create interactive projects using graphics, animation and video, and have opportunities to learn advanced screen printing, heat press vinyl, sublimation, UV printing and other print methods used in Industry. Students will choose and create their own advanced projects utilizing all the methods of printing.

**Prerequisite:** Digital Media (Digital Graphic Arts) or Screen Printing

**Credits:** *CTE, ART, Elective*

**Pathways:** *Broadcasting/Digital Media and Graphic Design*

*Grades: 9-12*

### **Exploring Computer Science 1**

This is an entry-level Digital Studies course for high school graduation. Exploring Computer Science 1 is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics. Rather than focusing the entire course on learning particular software tools or programming languages, the course is designed to focus conceptual ideas of computing and help students understand why certain tools or languages might utilized to solve particular problems.

- The goal of Exploring Computer Science 1 is to develop in students the computational thinking practices of algorithm development, problem solving and programming within the context of problems that are relevant to the lives of today's students

- Students will also be introduced to topics such as interface design, limits of computers and societal and ethical issues.

**Pathway:** *Cybersecurity, Information Technology Systems, Programming & Software Development, Web Development*

**Credit:** *CTE or Digital Studies*

**CTE Level:** *Introductory*

*One Trimester*

*Grades: 9-12*



### **Web Development I CE (WSU WEB 1400)**

Students will learn the fundamentals of how the internet works. They will learn and use the basic building blocks of the World Wide Web: HTML5 coding, Cascading Style Sheets (CSS), and JavaScript. They will follow the steps to create a website by planning, designing, developing, deploying, and maintaining website projects. Students will learn and use different scripting technologies to create more dynamic and interactive websites. They will learn what it takes for a career in web development as they complete projects and create their own website.

**Pathway:** *Web Development, Entrepreneurship, Office/Administrative/Support, Graphic Design & Communication: Digital Media*

**Credit:** *CTE or Digital Studies and WSU 3*

*One Trimester*

*Grades: 9-12*

**\*Fee:** *WSU Registration \$30.00/Tuition \$20*

## **Financial Literacy.....**

### **Financial Literacy**

This Financial Literacy course for Juniors and Seniors encompasses essential skills necessary for basic financial literacy. Topics covered include economics, budgeting, investing, debt, insurance, fraud, banking, financial goals, etc. Students will gain information and skills to implement a life-long plan for financial success.

**Credit:** *Financial Literacy*

*One Trimester*

*Grades: 11-12*

## **Other.....**



### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** *Elective for all CTE pathways*

**Credit:** *CTE*

*1-2 Trimesters*

**Grades:** *11-12*



### **DTC (Davis Technical College, formerly DATC)**

The DTC offers seniors and third trimester juniors with training opportunities in a variety of vocational fields ranging from auto mechanics to nursing. Morgan School District will provide transportation for morning classes. See the school counselor for information. Students should be on course for graduation.

Students interested in the cosmetology program cannot enroll until the summer prior to their senior year.

**Pathway:** *see your Counselor*

**Credit:** *CTE*

**Grades:** *11-12*

*1-3 Trimesters*

**\*Counselor permission required**

**\*While students are in High School the tuition is \$40.00 once a year that will cover all DTC classes for that year.**

**\*Fee:** *Book rental, fees, lab, and material costs will apply.*

## **Aviation.....**



### **Aircraft Systems (SUU PILT 1420)**

This course provides a study of the design, construction, and theory of operation of basic systems common to fixed-wing and rotary-wing aircraft such as: power plants, ignition systems, propellers, rotors, flight controls, fuel, electrical, hydraulic, pneumatic, lubrication, environmental and oxygen systems, pressurization, landing gear systems, brake systems, ice and rain detection/protection systems, and fire detection and extinguishing systems.

This course will be taught online and rotates every other year.

**Pathway:** *Transportation, Distribution & Logistics*

**Credit:** *CTE and/or 1 CE credit for SUU*

*One Semester*

*Grades: 11-12*

**\*Fee: Admission \$40.00 / Tuition \$5.00 per credit / Students will also be required to purchase a book through SUU.**



### **Air Transportation (SUU PILT 1010)**

This course will trace the evolution of the aviation industry from its earliest days through modern age. Topics addressed include significant aviation events and individuals, aircraft development, deregulation, administrative bodies, organizations and commercial companies that have influenced and/or continue to shape the domestic and international aviation industry.

This course will be taught online and rotates every other year.

**Pathway:** *Transportation, Distribution & Logistics*

**Credit:** *CTE and/or 1 CE Credit for SUU*

*One Semester*

*Grades: 11-12*

**\*Fee: Admission \$40.00 / Tuition \$5.00 per credit / Students will also be required to purchase a book through SUU.**



### **Aviation Orientation (SUU PILT 1040)**

A study of atmospheric conditions and their effects on aeronautical operations. Topics covered include basic meteorological principles and physics, atmospheric properties, patterns of weather development, and associated aviation hazards including thunderstorms, wind shear, turbulence, and icing. Limitations, interpretations, and use of aviation weather equipment used in aviation activity are presented. Weather observation and forecasting resources and their influence on flight planning and performance are considered.

This course will be taught online and only taught during Fall Semester.

**Pathway:** *Transportation, Distribution & Logistics*

**Credit:** *CTE1 and/or 1 CE Credit for SUU*

*One Semester*

*Grades: 10-12*

**\*Fee: Admission \$40.00 / Tuition \$5.00 per credit / Students will also be required to purchase a book through SUU.**



### **Commercial Aircraft Pilot CE Meteorology (SUU PILT 2050)**

A study of atmospheric conditions and their effects on aeronautical operations. Topics covered include basic meteorological principles and physics, atmospheric properties, patterns of weather development, and associated aviation hazards including thunderstorms, wind shear, turbulence, and icing. Limitations, interpretation, and use of aviation weather equipment used in aviation activity are presented. Weather observation and forecasting resources and their influence on flights planning and performance are considered. This course will be taught online and rotates every other year.

**Pathway:** *Transportation, Distribution & Logistics*

**Credit:** *CTE and/or 3 CE Credit for SUU*

*One Semester*

Grades: 11-12

**\*Fee: Admission \$40.00 / Tuition \$5.00 per credit / Students will also be required to purchase a book through SUU.**



### **Commercial Aircraft Pilot CE – Aerodynamics (SUU PILT 2250)**

A study of atmospheric conditions and their effects on aeronautical operations. Topics covered include basic meteorological principles and physics, atmospheric properties, patterns of weather development, and associated aviation hazards including thunderstorms, wind shear, turbulence, and icing. Limitations, interpretation, and use of aviation weather equipment used in aviation activity are presented. Weather observation and forecasting resources and their influence on flights planning and performance are considered.

This course will be taught online and rotates every other year.

**Pathway: Transportation, Distribution & Logistics**

**Credit: CTE and/or 3 CE Credit for SUU**

One Trimester

Grades: 11-12

**\*Fee: Admission \$40.00 / Tuition \$5.00 per credit / Students will also be required to purchase a book through SUU.**

### **Unmanned Aerial Systems**

This course covers the history, safety, rules and regulations, as well as the design and construction of Small Unmanned Aerial Systems (UAS). Students will fly both rotary and fixed wing UAS in preparation for certification.

**Pathway: Transportation, Distribution & Logistics**

**Credit: CTE**

One Trimester

Grades: 9-12

## **Fine Arts.....**

### **Band**

#### **Band II / Jazz Band A, B and C**

This group focuses on jazz literature. Rehearsal will be held daily in preparation for concerts and other performances. Participation in Pep Band and Symphonic Band is expected.

**Prerequisite:** Audition

**Credit:** Fine Arts

Grades: 9-12

**\*Fee: Instrument rental (if using a school instrument) \$60**

#### **Band III / Symphonic Band A, B and C**

This group focuses on concert band literature. Rehearsal will be held daily in preparation for concerts and other performances. Participation in Pep Band is expected.

**Prerequisite:** Audition

**Credit:** Fine Arts

Grades: 9-12

**\*Fee: Instrument rental (if using a school instrument) \$60**

#### **Band III / Percussion Ensemble A, B and C**

This group is intended for more advanced percussionists. Daily rehearsal will include music for the percussion ensemble, full band, and drumline.

**Prerequisite:** Audition

**Credit:** Fine Arts

Grades: 9-12

### **Orchestra**

### **Intermezzo Orchestra A, B and C**

Intermezzo Orchestra is an intermediate to advanced string orchestra. Its focus is on improving musical skills while learning great music from a variety of genres, such as: film scores, contemporary, pop, and classical. Previous string instrument experience is highly recommended.

**Prerequisite:** Audition

**Credit:** *Fine Arts*

**Grades:** 9-12

**\*Fee:** *Instrument rental (if using school instrument) \$60*

### **Chorus**

#### **Chorus II / Millennial Choir (Women Only)**

Millennial Choir is an advanced women's chorus designed for singing and performing two-part to four-part choral music. Music repertoire is sung in a variety of genres from different time periods, including contemporary, classical, Broadway, holiday, inspirational and world music. The Choir will perform various concerts throughout the year beyond the school day for a variety of events. These include school concerts, holiday performances in formal and outdoor venues, sports events, Singing Valentines, Solo and Ensemble festival, and recordings or music videos. This Choir is largely comprised of freshman singers, with a focus on individual and group performance in a fun, engaging environment. Students will strengthen music skills in singing and performing, and learn sight singing, ear training, music vocabulary, music notation and how to create pop song arrangements. Choir Tour, State Honor Choir, Choir leadership Council, solo opportunities, and studio recordings are fun, memorable opportunities for the group.

**Prerequisite:** Audition required (to identify student vocal range)

**Credit:** *Fine Arts*

*Three Trimesters Required*

**Grades:** 9-12

**\*Fee:** *Performance attire approximately \$100.00, Choir Tour Costs (Optional)*

#### **Chorus III / 'Ovation!' Chamber Choir A, B and C**

'Ovation!' Choir is an advanced chamber chorus for men and women designed for singing and performing two-part to six-part choral music. Repertoire is sung in a variety of music genres from different time periods, including contemporary, classical, Broadway, holiday, inspirational and world music. The Choir will perform concerts throughout the year at various events beyond the school day. Performances include school concerts, holiday concerts in formal and outdoor venues, Singing Valentines, Solo and Ensemble festival, and recordings or music videos. This Choir is largely comprised of singers with prior singing experience and focuses on individual and group performance in a fun, engaging environment. Students will strengthen music skills in singing and performing, and learn sight singing, ear training, music vocabulary, music history, music notation, and how to create pop song arrangements. Choir Tour, State Honor Choir, All-State Choir, solo opportunities, Choir leadership Council and studio recordings are fun, memorable opportunities for the group.

**Prerequisite:** Audition required; previous choral experience strongly encouraged

**Credit:** *Fine Arts*

*Three Trimesters Required*

**Grades:** 9-12

**\*Fee:** *Performance attire approximately \$100.00, Choir Tour Costs (Optional)*

#### **Pop Choir**

Pop Choir is a fun, non-auditioned class that focuses on the joy of singing and creating great music with friends. Students will get the opportunity to create mashups of songs, and participate in music videos. Come sing great songs, make incredible friendships, and earn your Fine Arts Credit in a fun and engaging class.

**Credit:** *Fine Arts*

**Grades:** 9-12

*1,2, or 3 Trimesters allowed*

## **Theater Arts**

### **Productions A (1st Trimester)**

Admittance to this class is by audition only. Auditions will be in Spring prior to the next production year. This course focuses on performance skills utilized in Musical Theater as well as the understanding of performance in a high school musical. This course provides a means of increasing life experience and self- accomplishment through a musical theatre performance. General music terms, notes, notation, rhythms, technique, choreography, and practice habits will be addressed. Memorization of dialogue, dance steps and music will be required. Students must attend all classes; rehearsals are in class as well as after school and some Saturdays. Do not plan to take vacations during this class. Students will be required to perform on the dates given for the school musical. Two weeks before the performance dates students cannot miss class or rehearsal. If you have any further questions, contact Mrs. Fritz. Admittance to this class is by audition only. You must have auditioned for the school musical and be cast to take this class.

**Prerequisite:** THIS IS AN AUDITION ONLY CLASS. AUDITIONS WILL BE HELD SPRING OF PRIOR SCHOOL YEAR.

**Credit:** *Fine Arts*

*One Trimester*

*Class is only offered 1st Trimester*

*Grades: 10-12*

**\*Fee: \$60**

### **Productions B (2<sup>nd</sup> Trimester)**

Admittance to this class is by audition only. Auditions will be in Spring prior to the next production year.

This course focuses on performance skills utilized in Musical Theater as well as the understanding of performance in a high school musical. This course provides a means of increasing life experience and self- accomplishment through a musical theatre performance. General music terms, notes, notation, rhythms, technique, choreography, and practice habits will be addressed. Memorization of dialogue, dance steps and music will be required. Students must attend all classes; rehearsals are in class as well as after school and some Saturdays. Do not plan to take vacations during this class. Students will be required to perform on the dates given for the school musical. Two weeks before the performance dates students cannot miss class or rehearsal. If you have any further questions, contact Mrs. Fritz. Admittance to this class is by audition only. You must have auditioned for the school musical and be cast to take this class.

**Prerequisite:** You must have auditioned and have participated in Productions A.

**Credit:** *Fine Arts*

*One Trimester*

*Class is only offered 2nd Trimester*

*Grades: 10-12*

**\*Fee: \$60**

### **Stage Tech**

Students will be actively engaged in learning scenic, lighting and sound design, and stage management. Students will use their newly acquired skills to assist the current production through building sets, hanging lights, and developing sound design. Students will investigate technical theater careers and then begin the development for potential employment or further education.

Students will attend and critique theatrical productions and volunteer to support the theater in the community. Classes such as Drawing, Welding, Shop, CAD, etc. are recommended to be taken prior to this class.

**Credit:** *Fine Arts*

*One to Three Trimesters*

*Grades: 9-12*



### **Student Productions**

This class will produce a "Spring Showcase" of work both musical and non-musical for an evening benefit to highlight the theatre department. The showcase will be in May 2023. Class time will be focused on the artistic, technical managerial and performance elements used in variety showcase productions. Students will direct and act in individual and group performances through scenes, monologues, plays, musicals and script writing. You must have taken at least one theatre class or production class to be admitted into the productions spring class. You will be required to perform in the spring showcase.

**Prerequisite:** At least one Theatre or Productions Class

**Credit:** Fine Arts

*One Trimester*

*Class is only offered 3rd Trimester*

*Grades: 10-12*

### **Theatre-FILM MAKING**

This course introduces aspects of acting for the camera as well as the history of movies and screen writing. We will study such genres as silent films, musicals, westerns, comedies and dramas as well as music videos. We will make films in the studied genres. A knowledge of film editing software such as iMovie or Adobe Premier is strongly recommended.

**Credit:** Fine Arts

*One Trimester*

*Grades: 10-12*

### **Theatre- Movement for Actors**

This course introduces aspects of stage movement for theatre arts. Students will study basic principles of using the body as a tool to tell a story. Aspects such as pantomime, improvisation, stage blocking, stage combat, comedian dell art, musical dance techniques, mindfulness, facial and body expression will be taught. Students will work individually and in groups to perform these techniques for the class to assess acquires skills.

**Credit:** Fine Arts

*One Trimester*

*Class is only offered 1<sup>st</sup> Trimester*

*Grades: 9-12*

### **Theatre- Acting for the Stage**

This course introduces aspects of stage acting for theatre arts. Student swill study basic live acting techniques such as voice work, storytelling skills, analyzing play scripts, acting methods, character development, and auditioning for plays. Techniques will be practiced and performed in class through scene work from contemporary and classical plays as well as humorous and dramatic monologues and ensemble performances from scripted plays

**Credit:** Fine Arts

*One Trimester*

*Class is only offered 2<sup>nd</sup> trimester*

*Grades: 9-12.*

### **Visual Arts**

#### **Acrylic Painting**

It is highly recommended that students take Drawing I before entering this course. Students who do not have Drawing I first will be required to take a one-week crash course on the Elements of Art and Foundational Drawing techniques. This class will be focused on Acrylic painting and provide step-by-step instruction on the fundamental and basic of Acrylic painting. This course enables a beginner to achieve confidence and mastery and to enjoy the process.

**Credit:** Fine Arts

*One Trimester*

*Grades: 10-12*

### **AP Portfolio/Studio Art A, B and C**

AP Portfolio/Studio is an upper division art course that focuses on helping students create a portfolio to submit to the AP art review. Students spend three trimesters creating four pieces a trimester. The portfolio focuses

on the artistic process and creating a cohesive body of work based on a sustained investigation. Students can also use this time as a normal advanced studio course and work on developing their skill through quality pieces and constructive critique; these students do not need to submit a portfolio. Students must have Drawing 1, and three other art courses before taking this class (excluding calligraphy).

**Prerequisite:** Drawing I and three other art courses (not including Calligraphy)

**Credit:** Fine Arts

*One to Three Trimesters, determined by student*

*Grades: 11-12*

**\*Teacher approval must be given before registering for this class.**

### **Commercial Photography I**

Introduction to getting started in commercial digital photography. This course will cover basic concepts for purchasing a digital camera, image capture, image editing, and image output. This will enable the digital camera user to purchase and more comfortably use the camera that will best suit their present and future needs.

**Pathway:** *Graphic Design & Communication: Commercial Photography, Commercial Art and Broadcasting: Audio/Visual Production Professional*

**Credit:** Fine Arts or CTE

*One Trimester*

*Grades: 9-12*

### **Commercial Photography II**

Students will experience an in-depth study of technical aspects of photography including lenses, camera, basic composition, displaying photos, studio lighting and motion pictures. Included is a study of the principles and elements of art and artistic design as they apply to photography.

**Prerequisite:** Basic Digital Photography

**Pathway:** *Graphic Design & Communication: Commercial Photography and Broadcasting: Audio/Visual Production Professional*

**Credit:** Fine Arts or CTE

*One Trimester*

*Grades: 11-12*

### **Book Making and Paper Arts**

This course will cover different methods of book binding, prepared grounds, and paper making. Students will create artist books and sketchbooks using art mediums, found objects, and collage.

**Credit:** Fine Arts

*One Trimester*

*Grades: 10-12*

### **Calligraphy and Sign Making**

Students will receive instruction in multiple calligraphy forms, e.g. blackletter, copper plate, modern calligraphy, and hand lettering, and learn how to incorporate these techniques into marketable art skills. Students will combine writing skills with illustration to create meaningful and expressive projects.

**Credit:** Fine Arts

*One Trimester*

*Grades: 9-12*

### **Ceramics I**

Students will master basic pottery skills using hand building techniques such as coil, slab, and pinch. Wheel throwing skills will also be developed. The course will also include history of ceramics and some sculpture.

**Credit:** Fine Arts

*One Trimester*

*Grades: 9-12*

## **Ceramics II**

This is an intermediate class that will further develop hand building techniques including coil, soft slab, and hard slab. Students will also develop more in-depth wheel throwing skills. Development of the vessel and history of ceramics will be addressed.

**Prerequisite:** Ceramics I

**Credit:** *Fine Arts*

*One Trimester*

*Grades: 10-12*

## **Ceramics III**

This is an advanced course using skills taught in Ceramics I and II. The class will have a studio format allowing students to focus on projects and techniques of their choosing.

**Prerequisite:** Ceramics I and Ceramics II

**Credit:** *Fine Arts*

*One Trimester*

*Grades: 10-12*

## **Ceramic Tile Making**

This is a class in the Ceramic arts that deals specifically with Tile production. Tile painting (as done in Ceramics I and II) will be done with more of an emphasis on design. Handmade tiles will also be addressed with considerations on low-relief and mosaic applications.

**Prerequisite:** Ceramics I

**Credit:** *Fine Arts*

*One Trimester*

*Grades: 10-12*

## **Digital Media I- (Formerly Digital Graphic Arts)**

Digital Media is the process of analyzing, designing and developing interactive media. Digital Media I is the first-year digital media course where students will create and learn digital media applications while using elements of text, graphics, animation, sound, video, and digital imaging for various formats. These abilities will prepare students for entry-level multimedia positions and provide fundamental 21st Century Learning skills beneficial for other occupational/educational endeavors.

Additional Suggested Prerequisite: Art / Drawing

**Pathway:** *Graphic Design & Communication: Commercial Photography, Digital Media, Graphics Printing, Commercial Art, and Broadcasting: Audio/Visual Production Professional, Broadcasting Professional, Web Development*

**Credit:** *Fine Arts or CTE*

*One Trimester*

*Grades: 9-12*

## **Digital Media II – Video, Audio, E-Portfolio**

Digital Media II is a second-year course within the digital pathway where students will develop advanced skills in design, create interactive projects using graphics, animation and video, and have opportunities to learn advanced screen printing, heat press vinyl, sublimation, UV printing and other print methods used in Industry. These skills can prepare students for entry level positions and other occupational/educational goals.

**Prerequisite:** Screen Printing Technology, Digital Media I

**Pathway:** *Graphic Design & Communication: Digital Media*

**Credit:** *Fine Arts or CTE*

*One Trimester*

*Grades: 10-12*

## **Digital Media II - Yearbook A, B and C**

Students desiring to be on the yearbook staff need to pick up an application from Mr. Fuller. Selection is made from the completed applications. Top students will be chosen from the applications received.

Students will produce the high school yearbook using online software from Jostens.

**Prerequisite:** Digital Graphic Arts Introduction / Digital Media I / Digital Photography

**Pathway:** *Graphic Design & Communication: Digital Media*

**Credit:** *Fine Arts or CTE*

*Three Trimesters*

*Grades: 10-12*

*\*Teacher permission required*

*\*Must be able to take at LEAST 2 trimesters*

### **Digital Print Design- Advanced Print**

This course is a second-year advanced print course within the digital pathway where students will develop advanced skills in design, create interactive projects using graphics, animation and video, and have opportunities to learn advanced screen printing, heat press vinyl, sublimation, UV printing and other print methods used in Industry. Students will choose and create their own advanced projects utilizing all the methods of printing.

**Prerequisite:** Digital Media (Digital Graphic Arts) or Screen Printing

*Credits: CTE, ART, Elective*

*Pathways: Broadcasting/Digital Media and Graphic Design*

*Grades: 9-12*

### **Drawing I**

Drawing is a technique based, first level drawing course. Students will primarily work with graphite. Focus will be given to the elements of art and how to deconstruct and simplify an image in order to improve drawing skills.

**Credit:** *Fine Arts*

*One Trimester*

*Grades: 9-12*

### **Drawing II**

Students will apply the basic skills they learned in Drawing I to enhance their art making abilities. Focus will be on using the principles of art and composition to create meaningful pieces of art. Drawing media will extend beyond graphite.

**Prerequisite:** Drawing I

**Credit:** *Fine Arts*

*One Trimester*

*Grades: 10-12*

### **Floriculture**

This is a fun class where students develop skills used in floral design and the floral industry. Students will learn to create floral arrangements and grow and identify plants. Skills learned in this class prepare students for careers in the floral and horticulture industry or can be for personal use. FFA activities will also be discussed.

**Pathway:** *Plant Science*

**Credit:** *Fine Arts or CTE*

*One Trimester*

*Grades: 9-12*

### **Interior Design I**

This course explores the field of interior design through engaging learning activities. Identification and use of the elements and principles of design are emphasized. Other topics are furniture arrangements, floor plan evaluation, space planning, and design-related careers. Skills learned can be applied to current living environment and future career options.

**Pathway:** *Interior Design*

**Credit:** *CTE and Fine Arts*

*One Trimester*

*Grades: 9-12*

### **Interior Design II**

This course provides the opportunity for students to develop skills in applying the elements and principles of design to interiors. Projects are integrated throughout the course to provide applications as the students' study architecture, furniture styles and construction, surface treatments, lighting, window treatments, upholstery and more.

**Pathway:** *Interior Design*

**Credit:** *CTE and Fine Arts*

*One Trimester*

*Grades: 9-12*



### **Interior Design II CE (WSU IDT 1010)**

This course provides the opportunity for students to develop skills in applying the elements and principles of design to interiors. Projects are integrated throughout the course to provide applications as the students' study architecture, furniture styles and construction, surface treatments, lighting, window treatments, upholstery and more. **Concurrent Enrollment Credit may be earned through Weber State University but is not required.**

**Prerequisite:** Interior Design I

**Pathway:** Interior Design

**Credit:** CTE and Fine Arts

One Trimester

Grades: 10-12

### **Interior Design III- Advanced**

Students will develop industry skills by applying previous content acquired in Interior Design I and II. Projects are integrated throughout the course to provide students with hands on application as they explore careers in interior design, design technology, product specification, sustainability and universal design.

**Prerequisite:** Interior Design I & Interior Design II

**Pathway:** Interior Design

**Credit:** CTE and Fine Arts

One Trimester

Grades: 11-12

### **Printmaking**

Students will learn techniques of fine art printmaking, e.g. relief printing, monotype, intaglio, collagraph, and book making. This course covers the distinctive nature of printmaking including: tools, inks, paper, plate preparation, registration, printing processes and qualities of prints. Combined with the skills developed in Drawing I, students will gain the skills and confidence to produce multiple images by hand printing and on a press while exploring personal visual expression. This course is NOT related to Graphic/Digital Arts or CTE. Please make sure you have the correct class before signing up.

**Prerequisite:** Drawing I

**Credit:** Fine Arts

One Trimester

Grades: 10-12

### **Watercolor Painting**

It is highly recommended that students take Drawing I before entering this course. Students who do not have Drawing I first will be required to take a one-week crash course on the Elements of Art and Foundational Drawing techniques. This class provides step-by-step instruction in the fundamentals of Watercolor painting and gives students the confidence and enjoyment of creating expressive art works with watercolor.

**Credit:** Fine Arts

One Trimester

Grades: 9-12

## **Health, Movement & Fitness.....**

### **Fitness for Life**

This course will help students adopt a personal lifestyle that will achieve physical fitness. Specifically, students will identify and understand all of the components of fitness such as strength, flexibility, endurance, weight control, and stress management.

**Credit:** Health, Movement & Fitness

One Trimester

Grade: 10

### **Health Education**

This course will assist students in the continual development of skills needed to improve the quality of life. Emphasis will be on the physical, social, and mental dimensions of people so that students can become better-informed consumers of health information. This class offers students an opportunity to evaluate health practices.

**Credit:** Health, Movement & Fitness  
*One Trimester*  
*Grade: 9-10*

### **Participation Skills and Techniques**

This course will develop participation skills and techniques in a variety of individual sports, games and activities with emphasis on leadership, courtesy, respect, and sportsmanship. This course also provides instruction aimed at improving and maintaining physical fitness and continuing team sports participation.

**Credit:** Health, Movement & Fitness  
*One Trimester*  
*Grade: 9*

## **Movement / Fitness Electives.....**

### **Beginning Weight Training**

For students to develop body muscle groups to assist performance in athletics and day-to-day life. Learn proper techniques, procedures, and safety rules with emphasis on power lifting, strength training, and plyometrics.

**Credit:** Health, Movement & Fitness  
*One Trimester*  
*Grades: 9-12*

### **Dance and Cheerleading A and B**

Enrollment is based on results of tryouts in the spring. Do not register for this class unless you have been selected for either squad.

**Prerequisite:** Tryouts are Required.  
**Credit:** Health, Movement & Fitness 0.50 / Elective 0.50  
*Two Trimesters (Fall & Winter)*  
*Grades: 9-12*



### **Exercise Science/Sports Medicine CE A and B (WSU RHS 2200)**

This course is designed to teach students components of exercise science/sports medicine; including exploration of therapeutic careers, medical terminology, anatomy and physiology, first aid, injury prevention principles, the healing process, rehabilitation techniques, therapeutic modalities, sport nutrition, sport psychology, and performance enhancement philosophies.

**Prerequisite:** Medical Anatomy and Physiology is highly recommended but not required  
**Pathway:** Exercise Science / Sports Medicine  
**Credit:** CTE 1 or Health and WSU 3  
*Two Trimesters*  
*Grades: 10-12*  
**\*Fee: Weber State \$15 if taking CE course**

### **Lifetime Activities**

Students will develop skills in a variety of lifetime activities such as bowling, badminton, jogging, and recreational games.

**Credit:** Health, Movement & Fitness  
*One Trimester*  
*Grades: 11-12*

### **Physical Conditioning, Yoga and Dance for Girls**

For Girls to develop body muscle groups to assist performance in athletics and day-to-day life. Learn proper techniques, procedures, and safety rules with emphasis on CrossFit, yoga, and plyometrics. **Credit:** Health, Movement & Fitness

*One Trimester*  
*Grades: 10-12*

### **Racquet Sports**

This course will introduce students to the basic skills and knowledge associated with playing a variety of racquet sports such as tennis, badminton, pickle ball, etc. The ultimate goal of this class is to provide the students with the knowledge and skills necessary for them to pursue playing racquet sports as a life-long activity. This course will provide students with opportunities to develop a satisfactory individual level of physical fitness, acquire knowledge of fitness concepts and demonstrate an understanding of how a wellness lifestyle affects one's health, fitness and physical performance. This course will provide an environment for all students to practice positive personal and social skills.

**Credit:** Health, Movement & Fitness

*One Trimester*

*Grades: 10-12*

### **Recreational Basketball**

This class is for students who want to get more game and competition experience. 1v1, 2v2, 3v3, & 5v5 are all elements of this course. Every student will touch the ball working on Shooting, Dribbling, drives to the basket, game situation passing, on ball defense, & team defense.

**Credit:** Health, Movement & Fitness

*One Trimester*

*Grades: 10-12*

### **Strength Training for Athletes**

Strength Training for Athletes is an advanced weight training class. It is an extremely high-intensity course designed to meet the needs of highly motivated student-athletes, both female and male. Students lift weights five days per week mixed with some days of running technique and other force productions.

This course reinforces the proper guidelines, principles and techniques of weightlifting, and the development of muscular strength, endurance, and power at an advanced level; Introduces Olympic lifting techniques and continues upon proper lifting form; and Continues development of individual sport training. Students should expect to work extremely hard and see significant increases in strength and power.

**Prerequisites:** Must be a student-athlete

**Credit:** PE Elective or Elective

*One Trimester*

*Grades: 9-12*

### **Team Sports Conditioning**

#### **Football – Volleyball – Basketball – Wrestling**

Students will participate in conditioning and training to develop skills in athletic activities including strategies, techniques, rules, and terminology.

**Prerequisite:** Coach permission required.

**Credit:** Health, Movement & Fitness

*One Trimester*

*Grades: 10-12*

### **Weight Training**

For boys to develop body muscle groups to assist performance in athletics and day-to-day life. Learn proper techniques, procedures, and safety rules with emphasis on power lifting, strength training, and plyometrics.

**Prerequisite:** Beginning Weights or Teacher Approval

**Credit:** Health, Movement & Fitness

*One Trimester*

*Grades: 10-12*

### **Weight Training for Conditioning, Toning and Body Shaping**

For girls who are interested in learning proper techniques, procedures and safety rules with emphasis on low weight, high reps, and aerobic training. Maximum lifts not to exceed 130 lbs.

**Credit:** Health, Movement & Fitness

*One Trimester*

*Grades: 10-12*

## **World Languages.....**

### **American Sign Language 1 A and B**

This course introduces students to ASL. Emphasis is on comprehension and production skills as well as preparatory finger spelling and ASL numbers, vocabulary, syntax, simple hand shape classifiers, and basic grammatical features. Wh-word questions in ASL structure will be introduced to help students begin an ASL conversation. Functional grammatical and basic expressive and receptive conversational skills will be emphasized through participation in the classroom and the community. Use of non-manual components of ASL grammar such as facial expression and body posture will be emphasized. This course also includes basic spatial comprehension in grasping and describing two-dimension (2-D) patterns, figures, and shapes. Students will gain practical skills for using ASL in appropriate contextual settings for everyday communication. Students will develop introductory cultural awareness necessary for appropriate interaction with the Deaf Community.

**Credit:** World Language

*Two Trimesters*

*Grades: 9-12*

### **American Sign Language 2 A and B**

This course is a continuation of ASL I, providing students with additional opportunities to produce and comprehend ASL as used in everyday conversational settings, including receptive and productive mastery using multiple grammatical features and conventional ASL discourse styles (such as narrative and explanatory). Students will utilize appropriate vocabulary, grammar, syntax, and cultural knowledge in their ASL conversations. Students will continue the use of common ASL sentences: topic comment, rhetorical, conditional, declarative, and conjunctions). Students will learn and use complex classifiers (use of handshapes) to describe concrete and abstract items such as physical characteristics, clothing, buildings, vehicles, animals, objects, etc. This course will train students on using ASL numbering systems in various contexts.

Competencies:

- Practice specific language functions found in ASL such as describing people and things, making requests and asking for advice, describing places, giving opinions about others, discussing plans and goals and storytelling. Accurately use fingerspelling, ASL numbers, topic/comment structure, spatial referencing, intermediate-level classifiers, spatial and inflection verbs, conditional sentences, and temporal sequencing.
- Demonstrate intermediate conversational fluency.

**Prerequisite:** ASL 1 A and 1 B

**Credit:** World Language

*Two Trimesters*

*Grades: 9-12*

### **Spanish I A and B**

Students will be introduced to the Spanish vocabulary and grammar structures. Topics include personal descriptions, the family, numbers, telling time, dates, greetings, food, and places. Emphasis is placed on conversing in the present tense and includes an introduction to Latino culture. Spanish I B requires successful completion of Spanish I A.

**Credit:** World Language

*Two Trimesters*

*Grades: 9-12*

### **Spanish II A and B**

Continuation of concepts taught in Spanish I. Emphasis is on additional grammatical structures and introduction to conversation in the past and future. Students will further develop conversation, reading, and writing skills in Spanish with a continued exploration of Latino culture.

**Prerequisite:** Spanish I A and B

**Credit:** World Language

*Two Trimesters*

*Grades: 10-12*

### **Spanish III A and B**

Emphasis is on increasing speaking, reading, and writing ability in Spanish. Students will use literature and media to increase their comprehension of the language, while continuing the study of Spanish grammar. Increased importance will be placed on student production of speaking and writing projects.



**Prerequisite:** Spanish II A and B

**Credit:** World Language

Two Trimesters

Grades: 11-12

### **Spanish IV A and B**

Students will continue to expand their Spanish skills in listening, reading, writing and speaking. Emphasis will be on past and imperfect tenses. Students will learn to interpret and interact with authentic text and media and engage in meaningful conversations.

**Prerequisite:** Spanish III A and B

**Credit:** World Language

Two Trimesters

Grades: 11-12

### **Additional Electives.....**

#### **Life Skills**

For students who qualify for the Special Education program. This course focuses on independent living skills including reading, math, self-care, job training and individual needs. Students can enroll by permission only.

**Credit:** Elective

Grades: 9-12

**\*Permission required from Special Ed Department**

#### **Peer Tutor**

Students will develop skills in working with students with disabilities. They will act as a tutor, job coach, and role model. This class is designed for 10-12 grade students who are trustworthy, reliable, and prompt. Students must have a 2.8 GPA with no F's or U's from the previous trimester. Students who fall below school attendance policy guidelines will be removed from the program. Any student who receives an F or U as a peer tutor will not be eligible for the program again.

**Credit:** Elective

One Trimester

Grades: 10-12 (Limit of 5 students per period)

**\*Permission required from Special Ed Department**

#### **Release Time**

Students may be released from school property for one period per day each trimester. Students and parents will be required to sign release forms. Any student that is found on school property during this period will not be granted release time and will be required to enroll in a course at Morgan High School. Options for Release Time are:

Morgan Grace Fellowship, telephone: 801-829-4058

Morgan LDS Seminary, telephone: 801-829-6042 <http://seminary.lds.org/myseminary>

**No Credit**

Grades: 9-12

#### **Study Hall**

This course is a non-credit course designed to provide students with a space that provides extra time to complete assignments and receive basic support.

**Credit:** None

One to three Trimesters

Grade: 9-12

#### **Study Skills/Intervention**

This course is designed to assess and support students in a variety of ways in which learning gaps may be present. Students may use this course to receive additional support on current learning within other classes. Students will also be given opportunities to overcome learning deficits through practice, targeted instruction, and small group support. Students may sign up for this class or may be assigned to this class for small periods of time at the request of counselors, teachers, and parents.

**Credit:** Elective

*1, 2 or 3 Trimesters Available*

*Grade: 9-12*

**Teacher's Aide**

Students are expected to work with assigned teacher daily. Students must have no F's or U's from the previous trimester. Students not attending regularly or who are found out of class without permission will be removed from the program and given an unsatisfactory (U) citizenship grade. Any student who receives an F, a U, or truancy (sluff) as a teacher's aide will not be eligible for this class again.

*Credit: Elective*

*One Trimester*

*Grades: 11-12*

**\*Counselor permission required**

**Transitions**

For students receiving services through IDEA or 504 law. This course focuses on building study habits, social skills, and preparing for post-secondary life. Students can enroll by permission only.

*Credit: Elective*

*Grades: 9-12*

**\*Permission required from Special Ed. Department**

**Mathematics Lab**

This intervention class is specifically designed to stay up to date with mathematical concepts being taught in their current math class. Students may receive help and support from a math teacher within this class. Math Lab is not primarily a study hall class to simply catch up with homework. Students may sign up for this class or may be assigned to this class for small periods of time at the request of counselors, teachers, and parents. To gain daily credit, students must attend and remain on task. Classes will be capped at 18 students per period.

*Credit: Elective*

*One, Two or Three Trimesters Available*

*Grades: 9-12*

# Career and Technical Education Career Pathways (CTE)

## All CTE Courses in Alphabetical Order

### **Accounting I**

Accounting may be the best route to a successful business career because accounting is the language and basic tools of business. Students will develop skills beginning with an understanding of the basic elements and concepts of double entry accounting systems related to a service business organized as a sole proprietorship. Skills include:

- Understanding the accounting equation
- Analyzing business transactions
- Entering transactions in journals
- Posting to ledgers
- Compiling end-of-period financial statements
- Preparing closing entries
- Managing and protecting cash

*It is strongly recommended to register for Accounting II after this course.*

**Prerequisite:** Secondary Math I and II

**Pathway:** Accounting and Finance, Business Administration, Business Information Management, Marketing

**Credit:** Mathematics Elective or CTE

*One Trimester*

*Grades: 9-12*

### **Accounting II**

This course is strongly recommended for any student interested in anticipating a career in any business, especially in the finance area. This course will teach you how to financially evaluate an existing company using accounting ratios. Students will develop advanced skills that build upon those acquired in Accounting I. Students continue applying concepts of double-entry accounting systems related to a merchandising business. Additional accounting skills will be developed, including:

- Preparing and journalizing payroll records
- Calculating and recording adjusting entries
- Interpreting financial information
- Exposure to automated accounting procedures is strongly encouraged

**Prerequisite:** Accounting I

**Pathway:** Accounting and Finance

**Credit:** Mathematics Elective or CTE

*One Trimester*

*Grades: 9-12*



### **Advanced Anatomy and Physiology A and B (WSU HS 1110/1111)**

Students who complete this course will have a head start on their healthcare careers. Advanced Human Anatomy and Physiology is a two-trimester course that studies the body system's anatomy and associated physiology at a college level. Course module topics include: the atomic and molecular levels of organization, cell biology and metabolism, microbiology, and the integumentary, skeletal and muscular body systems in part A. Part B module topics include: the nervous, endocrine, cardiovascular (blood), cardiovascular (heart and blood vessels), respiratory, digestive, urinary, and reproductive body systems. Labs, including dissections of various organs and a visit to the cadaver lab, will be required for successful course completion. Students should expect to spend approximately 12 hours (including class time) per week to receive a quality grade.

**Prerequisite:** Medical Anatomy and Physiology / Medical Terminology are highly recommended but not required

**Pathway:** Health Science

**Credit:** CTE (1 each section) and WSU (4 each section)

Two Trimesters

Grades: 11-12

**\*Fee: \$20 Tuition / \$30 Visible Body account require**



### **Aircraft Systems (SUU PILT 1420)**

This course provides a study of the design, construction, and theory of operation of basic systems common to fixed-wing and rotary-wing aircraft such as: power plants, ignition systems, propellers, rotors, flight controls, fuel, electrical, hydraulic, pneumatic, lubrication, environmental and oxygen systems, pressurization, landing gear systems, brake systems, ice and rain detection/protection systems, and fire detection and extinguishing systems.

This course will be taught online and rotates every other year.

**Pathway:** *Transportation, Distribution & Logistics*

**Credit:** *CTE and/or 1 CE credit for SUU*

*One Semester*

*Grades: 11-12*

**\*Fee: Admission \$40.00 / Tuition \$5.00 per credit / Students will also be required to purchase a book through SUU.**



### **Air Transportation (SUU PILT 1010)**

This course will trace the evolution of the aviation industry from its earliest days through modern age. Topics addressed include significant aviation events and individuals, aircraft development, deregulation, administrative bodies, organizations and commercial companies that have influenced and/or continue to shape the domestic and international aviation industry.

This course will be taught online and rotates every other year.

**Pathway:** *Transportation, Distribution & Logistics*

**Credit:** *CTE and/or 1 CE Credit for SUU*

*One Semester*

*Grades: 11-12*

**\*Fee: Admission \$40.00 / Tuition \$5.00 per credit / Students will also be required to purchase a book through SUU.**

### **Agricultural Science I A and B**

This class is specifically for Freshmen. Students are introduced to all aspects of agriculture including: plants, animals, natural resources, food, and opportunities in FFA.

**Pathway:** *Most Agriculture, Food, and Natural Science*

**Credit:** *CTE or Science Elective*

*Two Trimesters*

*Grades: 9-12*

### **Animal Science I A and B**

This course exposes students to a wide range of scientific principles such as genetics, anatomy, physiology, nutrition, diseases, pests, reproduction, behavior and management practices of all kinds of animals. Career opportunities and educational preparation are also examined. The students will have many hands-on activities, including dissections that will help them relate what they have learned to the real life around them. There will be FFA related experiences throughout the trimester.

**Pathway:** *Agriculture Production Systems, Animal and Veterinary Science*

**Credit:** *Science Elective or CTE*

*Two Trimesters*

*Grades: 10-12*

### **Animal Science II A and B**

**(Course offered every other year opposite Equine Science I and will be taught 2024/2025 school year)**

Students will develop knowledge and skills in a wide range of animal agriculture principles, including anatomy, and physiology, health maintenance waste disposal, and facilities. The efficient production and management of selected animal enterprises are covered, including beef, and dairy cattle, swine, sheep and goats, poultry, and equine. Practices in veterinary medicine and those associated with small animal care included. Students enrolled in the class will be highly encouraged to be involved with the FFA.

**Pathway:** *Agriculture Production Systems, Animal and Veterinary Science*

**Credit:** Science Elective or CTE

Two Trimesters

Grades: 11-12



### **Automation and Robotics TI, T2 and T3**

This is a 900-hour DTC Program including courses in Electronics, Programmable Logic Controllers (PLC's), Motor Controls, Hydraulics, Pneumatics, Drone Technology, Micro-Electronics, and more. This program is self-paced. High School CTE credit will be awarded each trimester and the DTC Credit will be awarded as the individual classes are completed (students can often complete more than one per trimester). When a student completes the entire program, there are opportunities for job placement with one of hundreds of employers waiting for program graduates, as well as 30 credit hours to take to USU or WSU or many other schools around the state. **Course offered before and after school.**

**Pathway:**

**Credit:** CTE

One Trimester (may repeat to continue the program)

Grades: 9-12



### **Aviation Orientation (SUU PILT 1040)**

A study of atmospheric conditions and their effects on aeronautical operations. Topics covered include basic meteorological principles and physics, atmospheric properties, patterns of weather development, and associated aviation hazards including thunderstorms, wind shear, turbulence, and icing. Limitations, interpretations, and use of aviation weather equipment used in aviation activity are presented. Weather observation and forecasting resources and their influence on flight planning and performance are considered.

This course will be taught online and only taught during Fall Semester.

**Pathway:** Transportation, Distribution & Logistics

**Credit:** CTE1 and/or 1 CE Credit for SUU

One Semester

Grades: 10-12

**\*Fee: Admission \$40.00 / Tuition \$5.00 per credit / Students will also be required to purchase a book through SUU.**

### **Biology-Agricultural A and B**

This is a state approved biology science course that uses agricultural applications to teach biology. This course meets the requirements for biology science credit using plant and animal concepts.

Students take the same state core test as in other biology classes. **Students planning on being FFA members should sign up for this Biology course.**

**Pathway:** All Agriculture, Food, and Natural Science

**Credit:** Science Core or CTE

Two Trimesters

Grades: 10-12

### **Business Communications I**

Communication skills rank in the top five skills employers are demanding. Business Communication affects all aspects of our lives.

- This introductory course will teach students to communicate in a clear, courteous, concise, complete, and correct manner on both the personal and professional levels
- Competency will be developed in oral, written, interpersonal, technological, and employment communication
- Listening skills will be incorporated throughout the semester

The overriding goal is to provide students with a solid communication base, so they can communicate effectively.

**Pathway:** Accounting and Finance, Business Administration, Business Information Management, and Marketing

**Credit:** CTE or English Elective

One Trimester

Grades: 9-12



### **Business Management / Business Management CE (WSU BSAD 1010)**

**College Credit Available: \$15 Tuition**

The Business Management course seeks to develop sound management concepts within students, as management plays a role in future employment opportunities. Effective management requires decision-making abilities, long-range planning knowledge, human relations expertise, and motivational skills. Students learn four basic functions of management: planning, organizing, directing, and controlling. Students will be able to:

- Describe and discuss why companies exist and how they influence society
- Analyze and examine what managers do, focusing on leadership and decision-making
- Synthesize, and evaluate data from the other functional areas or business (e.g., marketing, finance, and production/operation)

**Pathway:** *Business Administration*

**Credit:** *CTE*

*One Trimester*

*Grades: 9-12*



### **Business Office Specialist / Business Office Specialist CE (WSU WEB 1700)**

**College Credit Available: \$15 Tuition**

This course prepares students for immediate employment in multiple office settings. Students will learn how Microsoft Suite allows businesses to complete day-to-day activities. Students will have the opportunity to obtain a Microsoft Office Specialist industry certificate through Microsoft and Certipoint. Certification is recognized worldwide as the best method for employers to validate computer skill proficiency.

- Course applies advanced concepts and principles using word processing (Microsoft Word), spreadsheet (Microsoft Excel), databases (Microsoft Access), and electronic presentation software (Microsoft PowerPoint)
- Integrate applications learned, discover connections with technology, and apply skills to other classes
- This course builds on skills included in Digital Literacy and is not an introductory course. Must have foundational knowledge of Microsoft Office

**Pathway:** *Business Information Management Pathway*

**Credit:** *CTE or Digital Studies*

*One Trimester*

*Grades: 9-12*

### **CAD Architectural Design T1, T2, and T3**

This is a sequence of courses that prepare individuals for careers in the Architectural, Engineering, and Construction (ACE) Industry. This course includes instruction in 2D and 3D Computer-Aided Design (CAD) software to draw a small residential home with an emphasis on blueprint reading. Students will be placed in Architectural Design 1, 2, and 3 based on the level of completion they have attained in prior classes.

**Pathway:** *CAD Mechanical Design, Mechanical Engineering, Carpentry*

**Credit:** *CTE*

*One Trimester (may repeat for additional programs)*

*Grades: 9-12*



### **CAD Mechanical Design (Drafting)- T1, T2 and T3**

A sequence of courses that prepares individuals to develop technical knowledge and skills required to plan and prepare scale pictorial interpretations and technical documentation of engineering and design concepts. This includes instruction in the use of 2D and 3D Computer aided Design (CAD) software, sketching, drawing layout, geometric construction, orthographic projection, and dimensioning. There is an emphasis in developing technical knowledge and skills to develop 3D models in support mechanical and industrial engineers, and related professionals. Use of the 3-D printer is incorporated into the curriculum. Students will advance into higher level course work as they complete modules in the class.

**Pathway:** *CAD Mechanical Design, Mechanical Engineering, Carpentry*

**Credit:** *CTE*

*One Trimester (may repeat for additional programs)*

*Grades: 9-12*



### **Child Development / Development of the Child WSU CHF (WSU CHF 2500)**

If you are interested in a career as a special education teacher, social worker, preschool teacher, elementary teacher or parent, child development will help prepare you for these careers. It is for both male and female students to help improve their skills in understanding, disciplining, loving, and teaching babies, toddlers, preschoolers and school age children.

**Pathway:** *Pre-K: Early Childhood Education*

**Credit:** *CTE*

*One Trimester*

*Grades: 10-12*



### **Commercial Aircraft Pilot CE - Meteorology (SUU PILT 2050)**

A study of atmospheric conditions and their effects on aeronautical operations. Topics covered include basic meteorological principles and physics, atmospheric properties, patterns of weather development, and associated aviation hazards including thunderstorms, wind shear, turbulence, and icing. Limitations, interpretation, and use of aviation weather equipment used in aviation activity are presented. Weather observation and forecasting resources and their influence on flights planning and performance are considered.

This course will be taught online and rotates every other year.

**Pathway:** *Transportation, Distribution & Logistics*

**Credit:** *CTE and/or 3 CE Credit for SUU*

*One Semester*

*Grades: 11-12*

**\*Fee: Admission \$40.00 / Tuition \$5.00 per credit / Students will also be required to purchase a book through SUU.**



### **Commercial Aircraft Pilot CE - Aerodynamics (SUU PILT 2250)**

A study of atmospheric conditions and their effects on aeronautical operations. Topics covered include basic meteorological principles and physics, atmospheric properties, patterns of weather development, and associated aviation hazards including thunderstorms, wind shear, turbulence, and icing. Limitations, interpretation, and use of aviation weather equipment used in aviation activity are presented. Weather observation and forecasting resources and their influence on flights planning and performance are considered.

This course will be taught online and rotates every other year.

**Pathway:** *Transportation, Distribution & Logistics*

**Credit:** *CTE and/or 3 CE Credit for SUU*

*One Trimester*

*Grades: 11-12*

**\*Fee: Admission \$40.00 / Tuition \$5.00 per credit / Students will also be required to purchase a book through SUU.**

### **Commercial Photography I**

Introduction to getting started in commercial digital photography. This course will cover basic concepts for purchasing a digital camera, image capture, image editing, and image output. This will enable the digital camera user to purchase and more comfortably use the camera that will best suit their present and future needs.

**Pathway:** *Graphic Design and Communication: Commercial Photography, Commercial Art and*

*Broadcasting: Audio/Visual Production Professional*

**Credit:** *CTE or Fine Arts*

*One Trimester*

*Grades: 9-12*

### **Commercial Photography II**

Students will experience an in-depth study of technical aspects of photography including lenses, camera, basic composition, displaying photos, studio lighting and motion pictures. Included is a study of the principles and elements of art and artistic design as they apply to photography.

**Prerequisites:** Basic Digital Photography

**Pathway:** *Graphic Design and communication: Commercial Photography and Broadcasting: Audio/Visual Production Professional*

**Credit:** *CTE or Fine Arts*

*One Trimester*

*Grades: 10-12*

### **Computer Programming 1**

An introductory course in program engineering and applications. The course introduces students to fundamentals of computer programming. Student will learn to design, code, and test their own programs while applying mathematical concepts. Students will be introduced to coding concepts and problem-solving skills (debugging) as they create computer programs with C++, C#, Java, Python, or JavaScript. Students will be also introduced to more complex data structures and their uses, including arrays and classes. Students will learn to more create powerful programs.

**Pathway:** *Cybersecurity, Information Technology Systems, Programming and Software Development*

**Credit:** *CTE or Science or Digital Studies*

*One Trimester*

*Grades 9-12*

### **Composites I**

This course is the first in a sequence that will use technical; knowledge and skill to understand the properties of composites and to develop skills helpful in manufacturing parts using composite materials. This first course will discuss basic composite manufacturing, testing, and quality control procedures, safe use of equipment and tools, and process and procedures of composite fabrication or manufacturing.

**Pathway:** *Aerospace Manufacturing*

**Credit:** *CTE*

*One Trimester*

*Grades: 9-12*



### **Computer Programming 2 CE (CS 1400)**

**College Credit Available: \$20 Tuition**

This course builds on the concepts introduced in Computer Programming 1. This course introduces students to more complex data structures and their uses, including sequential files, arrays, and classes. Students will learn to create more powerful programs within a specific programming language including: Java, Python C++, C#, Swift.

**Prerequisite:** Computer Programming 1 or Computer Science Principles or Instructor Approval

**Pathway:** *Programming and Software Development*

**Credit:** *CTE or Science or Digital Studies*

*One Trimester*

*Grades 10-11*



### **Computer Science Principles CE (CS 1030)**

**College Credit Available: \$20 Tuition**

Computer Science Principles is a new course that follows a project to develop a computer science source that seeks to broaden participation in computing and computer science. The course places emphasis on the principles of computer science rather than just programming. Big ideas and concepts include:

1. Computing is a creative activity.
2. Abstraction reduces information and detail to facilitate focus on relevant concepts.
3. Data and information facilitate the creation of knowledge.
4. Algorithms are used to develop and express solutions to computational problems.
5. Programming enables problem solving, human expression, and creation of knowledge.
6. The Internet pervades modern computing.
7. Computing had global impacts.

Note: CSP course is currently a 1.0 credit course. There is a need to collect the most relevant concepts and include them into a trimester of the course to match the Digital Studies requirement.

**Pathway:** *Cybersecurity, Information Technology Systems, Programming and Software Development, Web Development*

**Credit:** *CTE or Science or Digital Studies*

*One Trimester*

*Grades 9-12*



### **Construction Trades Foundation**

A course that generally prepares individuals in the following areas: basic safety, introduction to blueprint reading, introduction to power tools, introduction to hand tools, and introduction to construction math. It also includes an industry overview, what to expect on the job and specific career opportunities. It is designed to allow for replica house building on a ¼"=1'0" scale. This course is based on the current National Center for Construction Education and Research (NCCER) task list.

**Pathway:** *Architectural Design, Construction and Structural Systems*

**Credit:** CTE

*One Trimester*

**Grades:** 9-12

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details. This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** *Elective for all CTE pathways*

**Credit:** CTE

*1-2 Trimesters*

**Grades:** 11-12



### **Diesel/Heavy Duty Technology**

The Diesel/Heavy Duty Technology Program provides training in a variety of diesel-powered vehicles, engines, and power systems. Students explore the theory of operation and preventative maintenance of diesel systems and progress to actual hands-on work in the maintenance and repair of transmissions, differentials, brakes, steering and suspension, wheel alignment, hydraulics and engine rebuilding. After demonstrating foundational knowledge, students begin working with the latest advances in the trucking industry in engine design, micro-processing, air conditioning, and transmissions.

**Prerequisite:** Entry Level Welding A, B and C

**Pathway:** *Transportation, Distribution & Logistics*

**Credit:** CTE and DTC

*Concurrent Enrollment with Davis Technical Center*

*This class will be taught at the Bus Barn, please see Counselors if transportation is needed*

*One Trimester*

**Grades:** 11-12

**\*Fee: \$40.00 per year fee that will cover all DTC classes for that year.**

### **Digital Media I- (Formerly Digital Graphic Arts)**

Digital Media is the process of analyzing, designing and developing interactive media. Digital Media I is the first-year digital media course where students will create and learn digital media applications while using elements of text, graphics, animation, sound, video, and digital imaging for various formats. These abilities will prepare students for entry-level multimedia positions and provide fundamental 21<sup>st</sup> century learning skills beneficial for other occupational/educational endeavors.

**Pathway:** *Graphic Design and Communication: Commercial Photography, Digital Media, Graphics Printing, Commercial Art, and Broadcasting: Audio/Visual Production Professional, Broadcasting Professional, Web Development*

**Credit:** CTE or Fine Arts

*One Trimester*

**Grades:** 9-12

### **Digital Media II – Video, Audio, E-Portfolio**

Digital Media II is a second-year course within the digital pathway where students will develop advanced skills in design, create interactive projects using graphics, animation and video, and have opportunities to learn advanced screen printing, heat press vinyl, sublimation, UV printing and other print methods used in Industry. These skills can prepare students for entry level positions and other occupational/educational goals.

**Prerequisite:** Screen Printing Technology, Digital Media I

**Pathway:** *Graphic Design and Communication: Digital Media*

**Credit:** *CTE or Fine Arts*

*One Trimester*

*Grades: 10-12*

### **Digital Media II - Yearbook A, B and C**

Students desiring to be on the yearbook staff need to pick up an application from Mr. Fuller. Selection is made from the completed applications. Top students will be chosen from the applications received. Students will produce the high school yearbook using online software from Jostens.

**Prerequisite:** Digital Graphic Arts Introduction / Digital Media / Digital Photography

**Pathway:** *Graphic Design and Communication: Digital Media*

**Credit:** *CTE or Fine Arts*

*Three Trimesters*

*Grades: 10-12*

*\*Teacher permission required*

*\*Must be able to take at LEAST 2 trimesters*

### **Digital Print Design- Advanced Print**

This course is a second-year advanced print course within the digital pathway where students will develop advanced skills in design, create interactive projects using graphics, animation and video, and have opportunities to learn advanced screen printing, heat press vinyl, sublimation, UV printing and other print methods used in Industry. Students will choose and create their own advanced projects utilizing all the methods of printing.

**Prerequisite:** Digital Media I or Screen Printing

**Credits:** *CTE, Fine Art, Elective*

**Pathways:** *Broadcasting/Digital Media and Graphic Design*

*Grades: 9-12*



### **Early Childhood Education I / Introduction to Early Childhood Education (WSU ECED 2600)**

This course can also be taken as CE Credit

This course prepares individuals for child-related careers in early childhood education (pre-school and elementary education) and/or more extensive parenting skills. Instruction given includes: applying developmentally appropriate practices (DAP) and developing lessons to teach children, maintaining a healthy environment for children, and developing positive relationship with children. Experiences with preschool and kindergarten children may be a component of this course.

**Prerequisite:** Child Development

**Pathway:** *Pre-K: Early Childhood Education*

**Credit:** *CTE*

*One Trimester*

*Grades: 9-12*



### **Entrepreneurship ( WSU ENTR 1002)**

Students will gain an understanding of the marketing and management principles necessary to start and operate their own business. They will develop an awareness of the opportunities for small business ownership and develop the planning skills needed to open a small business.

- Students will become aware of the traits and characteristics of successful entrepreneurs.
- Students gain an awareness of knowledge needed in research, planning and regulations affecting the small business and the means of financing a small business.
- They will understand the specific strategies of business management and marketing and the economic role of the entrepreneur in the market system.

Entrepreneurship is designed for students enrolled in business and marketing education, and/or other courses, who have an interest in developing skills, attitudes, and knowledge necessary for successful entrepreneurs.

**Pathway:** Accounting and Finance, Business Administration, Business Information Management, Marketing, Web Marketing

**Credit:** CTE

One Trimester

Grades: 9-12

### **Equine Science I A and B**

**(Course offered every other year opposite Animal Science II and will be taught 2023/2024 school year)**

This course prepares students to care for horse equipment; to train horses for various work and athletic or entertainment roles; and to manage horse training, breeding, feeding and housing program and facilities.

**Pathways:** Animal and Veterinary Science

**Credit:** Science Elective, CTE or Elective

One Trimester

Grades: 10-12



### **Exercise Science/Sports Medicine / Exercise Science/Sports Medicine CE A and B (WSU RHS 2175)**

This course is designed to teach students components of exercise science/sports medicine; including exploration of therapeutic careers, medical terminology, anatomy and physiology, first aid, injury prevention principles, the healing process, rehabilitation techniques, therapeutic modalities, sport nutrition, sport psychology, and performance enhancement philosophies.

**Prerequisite:** Medical Anatomy and Physiology is highly recommended but not required

**Pathway:** Exercise Science / Sports Medicine

**Credit:** CTE 1 and WSU 3

Two Trimesters

Grades: 10-12

**\*Fee: Weber State \$15 if taking the CE course**

### **Exploring Computer Science 1**

This is an entry-level Digital Studies course for high school graduation. Exploring Computer Science 1 is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics. Rather than focusing the entire course on learning particular software tools or programming languages, the course is designed to focus conceptual ideas of computing and help students understand why certain tools or languages might be utilized to solve particular problems.

- The goal of Exploring Computer Science 1 is to develop in students the computational thinking practices of algorithm development, problem solving and programming within the context of problems that are relevant to the lives of today's students
- Students will also be introduced to topics such as interface design, limits of computers and societal and ethical issues.

**Pathway:** Cybersecurity, Information Technology Systems, Programming & Software Development, Web Development

**Credit:** CTE or Digital Studies

One Trimester

Grades: 9-12

### **Floriculture**

This is a fun class where students develop skills used in floral design and the floral industry. Students will learn to create floral arrangements and grow and identify plants. Skills learned in this class prepare students for careers in the floral and horticulture industry or can be for personal use. FFA activities will also be discussed.

**Pathways:** Plant Science

**Credit:** CTE or Fine Arts

One Trimester

Grades: 9-12

### **Foods I- Foods and Nutrition**

A course that prepares individuals to understand the relationship of food and nutrition to health and well-being. This class focuses on the selection, preparation, and care of food as well as food safety and kitchen safety. This course cannot be repeated.

**Pathway:** Culinary Arts

**Credit:** CTE

One Trimester

Grades: 9-12

### **Foods II- Dietetics & Nutrition 1**

This course is designed to focus on principles of food preparation, sports nutrition, consumerism, and career options in the food industry. Students will learn skills and techniques needed to prepare yeast breads, soups and sauces, salads and dressings, and meats as well as meal planning. The Study and application of nutrition, sanitation, food sciences and technology in this course provides students with laboratory-based experiences that will strengthen their comprehension of food and nutrition concepts.

**Prerequisite:** Food & Nutrition I

**Pathway:** Culinary Arts

**Credit:** CTE

One Trimester

Grades: 9-12



### **Human Nutrition (WSU NUTR 1020 LS)**

Human nutrition is the platform to study the nature and integration of science across disciplines and in society through applied problem solving and data analysis. Nutritional balance and good health are explored in context of the levels of organization, metabolism and homeostasis, genetics and evolution, and ecological interactions.

**Pathway:** Food Science, Dietetics & Nutrition and Hospitality & Tourism

**Credit:** CTE 1 and WSU 3 One WSU Semester

Grades: 10-12 (Enrollment priority given to seniors)

**\*Fee: Book rental, fees, lab, and material costs will apply**

### **Game Development Fundamentals 1**

This course is designed to provide students with knowledge and project-based experience of fundamental gaming development concepts relating to STEM. These concepts include game design, scripting, creation of digital assets, graphic resources, animations, understanding hardware, problem solving, critical thinking, collaboration, and project management.

**Prerequisite:** Computer Science Principles or Computer Programming 1

**Pathway:** Programming and Software Development

**Credit:** CTE

One Trimester

Grades: 10-12

### **Greenhouse Management**

Students will develop knowledge and skills related to the greenhouse industry. Greenhouse operations and management will be the primary units of study. Students will be prepared to produce commercial plant species in a controlled environment, and manage commercial and experimental greenhouse operations. Students will be growing greenhouse crops for sale in the spring. Students will also be highly encouraged to be a part of the FFA program

**Pathway:** Plant Science

**Credit:** CTE

One Trimester

Grades: 9-12



### **Human Development (WSU CHF 1500)**

A survey course which addresses the developmental aspects of individuals across the lifespan. Course content encompasses the study of biological, cognitive, social, and emotional developmental changes of the healthy individual in the context of the family and society. It emphasizes and demonstrates the vital connections between theory, research, and application.

**Pathway:** Pre-K: Early Childhood Education

**Credit:** CTE 1 and WSU 3 One WSU Semester

Grades: 10-12 (Enrollment priority given to seniors)

**\*Fees: Book rental, fees, lab, and material cost will apply**

### **Interior Design I**

This course explores the field of interior design through engaging learning activities. Identification and use of the elements and principles of design are emphasized. Other topics are furniture arrangements, floor plan evaluation, space planning, and design-related careers. Skills learned can be applied to current living environment and future career options.

**Pathway:** *Interior Design*

**Credit:** *CTE and Fine Arts*

*One Trimester*

*Grades: 9-12*

### **Interior Design II**

This course provides the opportunity for students to develop skills in applying the elements and principles of design to interiors. Projects are integrated throughout the course to provide applications as the students' study architecture, furniture styles and construction, surface treatments, lighting, window treatments, upholstery and more.

**Pathway:** *Interior Design*

**Credit:** *CTE and Fine Arts*

*One Trimester*

*Grades: 9-12*



### **Interior Design II CE (WSU IDT 1010)**

This course provides the opportunity for students to develop skills in applying the elements and principles of design to interiors. Projects are integrated throughout the course to provide applications as the students' study architecture, furniture styles and construction, surface treatments, lighting, window treatments, upholstery and more. **Concurrent Enrollment Credit may be earned through Weber State University but is not required.**

**Prerequisite:** Interior Design I

**Pathway:** *Interior Design*

**Credit:** *CTE and Fine Arts*

*One Trimester*

*Grades: 10-12*

### **Interior Design III- Advanced**

Students will develop industry skills by applying previous content acquired in Interior Design I and II. Projects are integrated throughout the course to provide students with hands on application as they explore careers in interior design, design technology, product specification, sustainability and universal design.

**Prerequisite:** Interior Design I & Interior Design II

**Pathway:** *Interior Design*

**Credit:** *CTE and Fine Arts*

*One Trimester*

*Grades: 11-12*

### **Material Science A and B**

This class will use the general application of math and science to analyze and study the characteristics and behavior of different types of materials such as composites (light-weight and high-strength products such as materials used in the making of aircrafts), ceramics (glass), and polymers (plastics), and metals. The material taught in this class will be done through labs and discussions. It is a great introductory course for those students who are interested in science, technology, engineering, mathematics, or manufacturing. This will be a hands-on learning environment.

**Pathway:** *Material Science*

**Credit:** *CTE or Science Elective*

*Two Trimesters*

*Grades: 9-12*

### **Medical Anatomy and Physiology A and B**

This course sets the foundation for students who are considering the pursuit of a health-related career. Structure, function, and activities of the human body are discussed. Each body system's anatomy and associated physiology are covered in moderate detail. Labs, including dissections of various organs and a visit to the cadaver lab, will be required for successful course completion.

**Prerequisite:** Biology A and B **or** Biology Honors (A, B, and C) **or** Agricultural Biology A and B

**Pathway:** *Health Science*

**Credit:** CTE or Science Elective  
Two Trimesters  
Grades: 11-12



### **Advanced Anatomy and Physiology A and B (WSU HS 1110/1111)**

Students who complete this course will have a head start on their healthcare careers. Advanced Human Anatomy and Physiology is a two-trimester course that studies the body system's anatomy and associated physiology at a college level. Course module topics include: the atomic and molecular levels of organization, cell biology and metabolism, microbiology, and the integumentary, skeletal and muscular body systems in part A. Part B module topics include: the nervous, endocrine, cardiovascular (blood), cardiovascular (heart and blood vessels), respiratory, digestive, urinary, and reproductive body systems. Labs, including dissections of various organs and a visit to the cadaver lab, will be required for successful course completion. Students should expect to spend approximately 12 hours (including class time) per week to receive a quality grade.

**Prerequisite:** Medical Anatomy and Physiology / Medical Terminology are highly recommended but not required

**Pathway:** Health Science

**Credit:** CTE (1 each section) and WSU (4 each section)

Two Trimesters

Grades: 11-12

**\*Fee: \$20 Tuition / \$30 Visible Body account require**

### **Medical Terminology**

Students will study and understand the Greek- and Latin-based language of medicine and healthcare. Emphasis is placed upon word roots, suffixes, prefixes, abbreviations, symbols, anatomical terms, and terms associated with movements of the human body. This course also stresses the proper pronunciation, spelling, and usage of medical terminology. This class is helpful to anyone considering going into the healthcare field.

**Pathway:** Health Science

**Credit:** CTE or Science Elective

One Trimester

Grades: 10-12



### **Nurse Assistant (CNA)**

The Davis Technical College (DTC) offers a program designed for high school students that leads to certification as a certified nurse assistant (CNA). This course is highly recommended for those interested in any health care careers and will provide a CNA certificate to those who pass the state exam at the end of the trimester. This is a one trimester course but will be blocked for two class periods back to back. Students must be Juniors or Seniors and at least 16 years old when this course begins. Students will learn medical terminology, and basic knowledge and skills to use in a healthcare setting. This course also includes clinical hours in a long-term care facility.

**Pathway:** TS-Nursing

**Credit:** CTE and DTC

Concurrent enrollment with Davis Technical College

Grades: 11-12 (16 years old)

**\*Fee: DTC Enrollment \$55.00 + cost of books; state test \$75.00 (these fees are subject to change)**

### **Principles of Cyber Defense and Ethics**

This course will provide a comprehensive view of Cybersecurity across an organization. You will learn how to use features of modern operating systems to enhance an organization's security, understand inherent weaknesses in wireless and wired networks, and be better equipped to protect your employer's and your own information. As a prerequisite to advanced topics in ethical hacking, incident response and digital forensics, you will also learn about Cybersecurity career paths and how to further develop your skills in these areas.

**Prerequisite:** Exploring Computer Science or Computer Science Principles or Computer Programming 1

**Pathway:** Cybersecurity

**Credit:** CTE

One Trimester

Grades: 9-12

### **Screen Printing Technology- (Apparel Design)**

This course is designed to provide students with the knowledge to create, produce and reproduce visual graphics that communicate to an audience. Develop the knowledge and skills relative to the graphic design and screen-printing industries. Includes instructions and hands-on experiences in design and layout, digital prep of designs, and multiple color printing processes on various substrates. Provides an overview of the screen-printing and print making industries on the commercial level. Instructions include the use of industry standard graphics software with the Adobe Creative Suite.

**Prerequisite:** Digital Graphic Arts Intro **or** Commercial & Advertising Art **or** Digital Media I

**Pathway:** *Graphic Design & Communication: Graphics Printing*

**Credit:** *Fine Arts or CTE*

*One Trimester*

*Grades: 10-12*

### **Sports and Entertainment Marketing**

This is an introductory and specialized marketing course that will help students gain an understanding of marketing concepts as they apply to sports and entertainment industry.

- The areas this course will cover include: core marketing standards, market segmentation, target marketing, the event marketing triangle (events, fans, and sponsors), sports and entertainment promotion and marketing plans.
- Explore the key areas associated with sports marketing plans while working in small teams
- Gain interpersonal skills through working with peers and classroom presentations

**Pathway:** *Accounting and Finance, Business Administration, Marketing*

**Credit:** *CTE*

*One Trimester*

*Grades: 9-12*



### **Sports and Outdoor Design I / Sports & Outdoor Design (USU FCSE 1020)**

This class is a beginning sewing class that will introduce basic design and construction skills using technical fabrics and lab equipment to make projects for the outdoor/sports industry. Students will also learn about and prepare for employment opportunities in the outdoor/sports industry. **Concurrent Enrollment Credit may be earned through Utah State University** as well. Students are responsible for purchasing their fabric and any individual supplies. Students may repeat this course with teacher approval.

**Pathway:** *Fashion, Apparel & Textiles*

**Credit:** *CTE and/or 3 CE Credits for Utah State University*

*One Trimester*

*Grades: 9-12*

### **Sports and Outdoor Design II**

Students will further strengthen and broaden sports and outdoor design and production techniques. In this course they design and construct intermediate level projects using various construction intermediate level projects using various construction techniques. These skills prepare students for the exciting global sports and outdoor industry and entrepreneurial opportunities.

**Prerequisite:** Sports and Outdoor Product Design I

**Pathway:** *Fashion, Apparel & Textiles*

**Credit:** *CTE*

### **Teaching as a Profession**

This class is designed for students who are considering a career in education. Teaching as a Profession will introduce students to the role and positive influence of an effective educator. Students will explore various careers in education and develop employability skills to become a successful professional. Students will understand the value of multiculturalism and diversity in the classroom and how it enhances individual student learning. Students will identify instructional strategies and understand the role of technology and feedback in student engagement.

**Pathway:** *Pre-K: Early Childhood Education, K-12: Teaching as a Profession*

**Credit:** *CTE*

*One Trimester*

*Grades: 10-12*



### **Unmanned Aerial Systems- Drone Technology**

This course covers the history, safety, rules and regulations, as well as the design and construction of Small Unmanned Aerial Systems (UAS). Students will fly both rotary and fixed wing UAS in preparation for certification.

**Pathway:** *Transportation, Distribution & Logistics*

**Credit:** *CTE*

*One Trimester*

*Grades: 9-12*

### **Veterinary Assistant I A and B**

This course provides the opportunity for students to explore different avenues of the veterinary profession., Students will be exposed to veterinary science and principle which will include, anatomy, physiology, chemistry. animal health and disease, dentistry, and laboratory procedures. Students will provide hands on care as they develop skills in the areas of surgical assisting, bandaging, wound care, oral care, and general nursing care.

**Prerequisite:** *Biology or Bio-Ag Science A*

**Pathway:** *Animal and Veterinary Science*

**Credit:** *CTE or Science Elective*

*Two Trimesters*

*Grades: 11-12*

*\*Fee supplies \$10.00*



### **Web Development I CE (WSU WEB 1400)**

Students will learn the fundamentals of how the internet works. They will learn and use the basic building blocks of the World Wide Web: HTML5 coding, Cascading Style Sheets (CSS), and JavaScript. They will follow the steps to create a website by planning, designing, developing, deploying, and maintaining website projects. Students will learn and use different scripting technologies to create more dynamic and interactive websites. They will learn what it takes for a career in web development as they complete projects and create their own website.

**Pathway:** *Web Development, Entrepreneurship, Office/Administrative/Support, Graphic Design & Communication: Digital Media*

**Credit:** *CTE or Digital Studies and WSU 3*

*One Trimester*

*Grades: 9-12*

**\*Fee:** *WSU Registration \$30.00/Tuition \$20*



### **Welding Technician T1, T2, and T3**

Shop course designed to teach basic, intermediate, and advanced welding skills. Students will learn multiple welding processes. Students are expected to pay for materials used for personal projects. Safety glasses and protective clothing are required. Concurrent enrollment credit is available through DTC where they may complete the Welding Technician Credential for employment in the welding industry. Students may repeat this course multiple times and will continue to advance in the program. It is recommended that students serious about a welding career take the course all three trimesters.

**Pathway:** *Welding*

**Credit:** *CTE*

*One Trimester*

*Grades: 9-12 (may repeat to advance)*

**\*Fee:** *\$40.00 per year fee that will cover all DTC classes for that year.*

### **Woods 1**

The first in a sequence of courses that prepares individuals to apply technical knowledge and skills to lay-out, shape, assemble, and finish projects. Value is placed on developing craftsmanship, production sense, and design principles. This course emphasizes the safe use of a variety of hand tools, power tools, and machinery.

**Pathway:** *Construction and Structural Systems, Engineering, Mechanical Design (CAD), Manufacturing, and Production*

**Credit:** *CTE*

*One Trimester*

*Grades: 9-12*

**\*Fee:** *Project materials (cost determined by type of project)*



## **Woods 2**

The second instructional course in a sequence of courses that prepares individuals to apply technical knowledge and skills, set up and operate industrial woodworking machinery, and use such machinery to design and fabricate custom cabinets and architectural millwork. It stresses the safe use of trade hand and power tools and machinery used in the production of millwork items. Cabinets, such as kitchen and vanities, are constructed, finished, and installed as part of the program.

**Prerequisite:** Woods I

**Pathway:** Manufacturing & Production

**Credit:** CTE

*One Trimester*

*Grades: 9-12*

**\*Fee: No fee associated with school-related projects**

## **Woods 3**

The third instructional course in a sequence of courses that prepares individuals to apply technical knowledge and skills to lay-out, shape, assemble, and finish projects. Value is placed on developing craftsmanship, production sense, and design principles. This course emphasis the development of production principles in a manufacturing environment.

**Prerequisite:** Woods 1

**Pathway:** Manufacturing & Production

**Credit:** CTE

*One Trimester*

*Grades: 9-12*

**\*Fee: No fee associated with school-related projects. For student projects, fee is determined by type of project (cost of materials)**

## **IVC (Interactive Video Conferencing) .....**

*Offered through, Weber State University*

***\*The following courses may or may not be offered by Weber State University for the upcoming year. Please have an alternate choice in mind in the event Weber State chooses not to offer a course you have selected.***

***WSU's concurrent enrollment policy requires that students have a 3.0 GPA to qualify for enrollment in any IVC class.***

***Completion of each course will earn the student 3 college credits, and 1 high school credit, unless otherwise noted.***

***\*English 1010 requires that the student be a senior or have a 17 on the English portion of the ACT, or an Accuplacer score of 90 or higher.***

***Morgan High School reserves the right to impose additional requirements for specific courses.***

***WSU will require a \$30.00 one-time admission fee per student and each course will require a \$5.00 per credit fee. These fees will be paid directly to Weber State University.***

***Students should only sign up for IVC classes if they are serious about their education and are willing to dedicate the time necessary to succeed. The grades received in these courses will stay on high school and college transcripts, which could affect scholarship opportunities.***

***Students enrolling in any IVC class will be required to follow the IVC schedule during the school year. IVC will hold class on some days when MHS is not in session and students will be required to attend. Students will also be required to miss any assembly that may conflict with their classes to attend IVC.***

## **English**

**WSU / Interpersonal and Small Group Communication (COMM 2110 HU)**

Explores the dynamics of verbal and nonverbal communication in personal relationships and small groups. The emphasis is on practical application of course content to enhance interpersonal relationships and to achieve competence as group members.

**Credit:** *English 1 and WSU 3*

*One WSU Semester*

*Grades: 11-12 (Enrollment priority given to seniors)*

**\*Book rental, fees, lab, and material costs will apply**

**WSU / Principles of Public Speaking (COMM 1020)**

This class introduces theories and principles of effective speaking with emphasis on: audience analysis and adaptation, listening, organization, content development, use of language, and extemporaneous delivery. Designed to improve the student's ability to research, organize, develop and make presentations.

**Credit:** *English 1 and WSU 3*

*One WSU Semester*

*Grades: 11-12 (Enrollment priority given to seniors)*

**\*Book rental, fees, lab, and material costs will apply**

**Fine Arts****WSU / Introduction to Visual Arts (ARTS 1010)**

This is an online course  
Introduction to all forms of visual art covering processes (such as demonstration of the lost-wax process of metal casting), language, responses (oral and written assignments that utilize art related terminology), issues (such as patronage, feminism or orientalism), and ways of seeing and understanding works of art. A general education course for the non-art major.

**Credit:** *Fine Arts 1 and WSU 3*

*One WSU Semester*

*Grades: 11-12 (Enrollment priority given to seniors)*

**\*Book rental, fees, lab, and material costs will apply**

**WSU / Introduction to Music (MUSC 1010 CA)**

This course will be taught online an introduction to music, its elements, language, and historical development. The course focuses on European and American music with components of jazz, world, and popular genres. Concert attendance outside of regularly scheduled class time is required. Not available to music majors.

**Credit:** *Fine Arts 1 and WSU 3 One WSU Semester*

*Grades: 11-12 (Enrollment priority given to seniors)*

**\*Book rental, fees, lab, and material costs will apply**

**Social Studies****WSU / Introductory Psychology (PSY 1010)**

This course will be taught online  
This course introduces the scientific study of human behavior.

**Credit:** *Social Studies 1 and WSU 3*

*One WSU Semester*

*Grades: 11-12 (Enrollment priority given to seniors)*

**\*Book rental, fees, lab, and material costs will apply**

**WSU / Political Science (POLS 1100)**

A study of American constitutional democracy at the national level, including political institutions, interests, ideals, and the processes through which policies are formulated and implemented.

**Credit:** *Social Studies or Government & Citizenship 1 and WSU 3*

*One WSU Semester*

*Grades: 11-12 (Enrollment priority given to seniors)*

**\*Book rental, fees, lab, and material costs will apply**



**WSU / History of the United States to 1877 (HIST 2700)**

A chronological survey of American history from Native American and European colonial origins through Reconstruction, 1877. Directed toward History majors, minors, and those planning to teach U.S. history.

Students may fulfill the American Institutions requirement by completing this course and HIST 2710 with a grade of C or better.

**Credit:** *Social Studies or US History 1 and WSU 3*

*One WSU Semester*

*Grades: 11-12 (Enrollment priority given to seniors)*

**\*Book rental, fees, lab, and material costs will apply**



**WSU / History of the United States since 1877 (HIST 2710)**

A chronological survey of American history from the Gilded Age, 1877, to the present. Directed toward History majors, minors, and those planning to teach U.S. history. Students may fulfill the American

Institutions requirement by completing this course and HIST 2700 with a grade of C or better.

**Credit:** *Social Studies 1 and WSU 3*

*One WSU Semester*

*Grades: 11-12 (Enrollment priority given to seniors)*

**\*Book rental, fees, lab, and material costs will apply**

**Computer Science**



**WSU / Object-Oriented Programming (CS 1410)**

An introduction to the C++ language. Topics will include data types, control structures, functions, pointers, arrays, I/O streams, classes, objects, encapsulation, overloading, inheritance and use of these concepts in problem solving.

**Prerequisite:** Computer Programming 2 CE (CS1400), Computer Science Principles CE (CS 1030)

**Pathway:** *Programming and Software Development*

**Credit:** *Science or CTE 1 and WSU 4*

*One WSU Semester*

*Grades: 11-12 (Enrollment priority given to seniors)*

**\*Book rental, fees, lab, and material costs will apply**



**WSU / Introduction to Data Structures and Algorithms (CS 2420)**

General principles of common data structures and design of efficient algorithms. Topics include arrays, linked-lists, stacks, queues, trees, graphs, tables, storage and retrieval structures, searching, sorting, hashing, and algorithmic analysis. Emphasis will be on abstraction, efficiency, re-usable code, and object-oriented implementation.

**Prerequisite:** Object Oriented Programming CS 1410

**Pathway:** *Programming and Software Development*

**Credit:** *Science or CTE 1 and WSU 4*

*One WSU Semester*

*Grades: 11-12 (Enrollment priority given to seniors)*

**\*Book rental, fees, lab, and material costs will apply**

**Career and Technical Education Career Pathways (CTE)**  
**All CTE Courses Separated into Pathways**

**Agriculture, Food & Natural Resources**

<b>CAREER CLUSTER: Agriculture, Food &amp; Natural Resources</b>		
<b>CAREER PATHWAY: Animal &amp; Veterinary Science</b>		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
Animal Science I	Business Communication I	Veterinary Assistant I
Biology-Agricultural Science	Equine Science I	
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
Animal Science II		
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
CTE Internship		

**Animal Science I A and B**

This course exposes students to a wide range of scientific principles such as genetics, anatomy, physiology, nutrition, diseases, pests, reproduction, behavior and management practices of all kinds of animals. Career opportunities and educational preparation are also examined. The students will have many hands-on activities, including dissections that will help them relate what they have learned to the real life around them.

There will be FFA related experiences throughout the trimester.

**Pathway:** Agriculture Production Systems, Animal and Veterinary Science

**Credit:** Science Elective **or** CTE

Two Trimesters

Grades: 10-12

**Animal Science II A and B**

**(Course offered every other year opposite Animal Science II and will be taught 2024/2025 school year)**

Students will develop knowledge and skills in a wide range of animal agriculture principles, including anatomy, and physiology, health maintenance waste disposal, and facilities. The efficient production and management of selected animal enterprises are covered, including beef, and dairy cattle, swine, sheep and goats, poultry, and equine. Practices in veterinary medicine and those associated with small animal care included. Students enrolled in the class will be highly encouraged to be involved with the FFA.

**Pathway:** Agriculture Production Systems, Animal and Veterinary Science

**Credit:** Science Elective **or** CTE

Two Trimesters

Grades: 11-12

**Biology-Agricultural Science A and B**

This state approved biology science course uses agricultural applications to teach biology. This course meets the requirement for biology science credit using plant and animal concepts. Students take the same state core test as in other biology classes. **Students planning to be FFA members should sign up for this Biology Course.**

**Pathway:** All Agriculture, Food and Natural Science

**Credit:** CTE **or** Science Core

Two Trimesters

Grades: 10-12

### **Business Communications I**

Communication skills rank in the top five skills employers are demanding. Business Communication affects all aspects of our lives.

- This introductory course will teach students to communicate in a clear, courteous, concise, complete, and correct manner on both the personal and professional levels
- Competency will be developed in oral, written, interpersonal, technological, and employment communication
- Listening skills will be incorporated throughout the semester

The overriding goal is to provide students with a solid communication base, so they can communicate effectively.

**Pathway:** *Accounting and Finance, Business Administration, Business Information Management, and Marketing*

**Credit:** *CTE or English Elective*

*One Trimester*

*Grades: 9-12*

### **Equine Science I A and B**

**(Course offered every other year opposite Animal Science II and will be taught 2024/2025 school year)**

This course prepares students to care for horse equipment; to train horses for various work and athletic or entertainment roles; and to manage horse training, breeding, feeding and housing program and facilities.

**Pathways:** *Animal and Veterinary Science*

**Credit:** *Science Elective, CTE or Elective*

*One Trimester*

*Grades: 10-12*

### **Veterinary Assistant I A and B**

This course provides the opportunity for students to explore different avenues of the veterinary profession., Students will be exposed to veterinary science and principle which will include, anatomy, physiology, chemistry. animal health and disease, dentistry, and laboratory procedures. Students will provide hands on care as they develop skills in the areas of surgical assisting, bandaging, wound care, oral care, and general nursing care.

**Prerequisite:** *Biology or Bio-Ag Science A*

**Pathway:** *Animal and Veterinary Science*

**Credit:** *CTE or Science Elective*

*Two Trimesters*

*Grades: 11-12*

*\*Fee supplies \$10.00*

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** *CTE Pathway Coursework (See Mr. Ard)*

**Pathway:** *Elective for all CTE pathways*

**Credit:** *CTE*

*1-2 Trimesters*

*Grades: 11-12*

<b>CAREER CLUSTER: Agriculture, Food &amp; Natural Resources</b>		
<b>CAREER PATHWAY: Food Science, Dietetics &amp; Nutrition</b>		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
Foods I (Foods and Nutrition)	Human Development	Medical Anatomy and Physiology
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
Foods II (Dietetics and Nutrition I)		
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
Foundations of Nutrition	CTE Internship	

### **Foods I- Foods and Nutrition**

A course that prepares individuals to understand the relationship of food and nutrition to health and well-being. This class focuses on the selection, preparation, and care of food as well as food safety and kitchen safety. This course cannot be repeated.

**Pathway:** Culinary Arts

**Credit:** CTE

One Trimester

Grades: 9-12



### **Human Development (WSU CHF 1500 SS)**

A survey course which addresses the developmental aspects of individuals across the lifespan. Course content encompasses the study of biological, cognitive, social, and emotional developmental changes of the healthy individual in the context of the family and society. It emphasizes and demonstrates the vital connections between theory, research, and application.

**Pathway:** Pre-K: Early Childhood Education

**Credit:** CTE 1 and WSU 3 One WSU Semester

Grades: 10-12 (Enrollment priority given to seniors)

**\*Fees:** Book rental, fees, lab, and material cost will apply

### **Medical Anatomy and Physiology A and B**

This course sets the foundation for students who are considering the pursuit of a health-related career. Structure, function, and activities of the human body are discussed. Each body system's anatomy and associated physiology are covered in moderate detail. Labs, including dissections of various organs and a visit to the cadaver lab, will be required for successful course completion.

**Prerequisite:** Biology A and B or Biology Honors (A, B, and C) or Agricultural Biology A and B

**Pathway:** Health Science

**Credit:** CTE or Science Elective

Two Trimesters

Grades: 11-12

### **Foods II- Dietetics & Nutrition 1**

This course is designed to focus on principles of food preparation, sports nutrition, consumerism, and career options in the food industry. Students will learn skills and techniques needed to prepare yeast breads, soups and sauces, salads and dressings, and meats as well as meal planning. The Study and application of nutrition, sanitation, food sciences and technology in this course provides students with laboratory-based experiences that will strengthen their comprehension of food and nutrition concepts.

**Prerequisite:** Food & Nutrition I

**Pathway:** Culinary Arts

**Credit:** CTE

One Trimester

Grades: 9-12



### **Foundations of Nutrition/Science of Human Nutrition (WSU HLTH 1020 LS)**

Human nutrition is the platform to study the nature and integration of science across disciplines and in society through applied problem solving and data analysis. Nutritional balance and good health are explored in context of the levels of organization, metabolism and homeostasis, genetics and evolution, and ecological interactions.

**Pathway:** *Food Science, Dietetics & Nutrition and Hospitality & Tourism*

**Credit:** *CTE 1 and WSU 3 One WSU Semester*

**Grades:** *10-12 (Enrollment priority given to seniors)*

**\*Fee:** *Book rental, fees, lab, and material costs will apply*

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** *Elective for all CTE pathways*

**Credit:** *CTE*

**Grades:** *1-2 Trimesters*

**Grades:** *11-12*

CAREER CLUSTER: Agriculture, Food & Natural Resources		
CAREER PATHWAY: Plant Science		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
Biology-Agricultural Science	Business Communication I	
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
Floriculture		
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
Greenhouse Management	CTE Internship	

**Biology-Agricultural Science A and B**

This state approved biology science course uses agricultural applications to teach biology. This course meets the requirement for biology science credit using plant and animal concepts. Students take the same state core test as in other biology classes. **Students planning to be FFA members should sign up for this Biology Course.**

**Pathway:** All Agriculture, Food and Natural Science

**Credit:** CTE or Science Core

Two Trimesters

Grades: 10-12

**Business Communications I**

Communication skills rank in the top five skills employers are demanding. Business Communication affects all aspects of our lives.

- This introductory course will teach students to communicate in a clear, courteous, concise, complete, and correct manner on both the personal and professional levels
- Competency will be developed in oral, written, interpersonal, technological, and employment communication
- Listening skills will be incorporated throughout the semester

The overriding goal is to provide students with a solid communication base, so they can communicate effectively.

**Pathway:** Accounting and Finance, Business Administration, Business Information Management, and Marketing

**Credit:** CTE or English Elective

One Trimester

Grades: 9-12

**Floriculture**

This is a fun class where students develop skills used in floral design and the floral industry. Students will learn to create floral arrangements and grow and identify plants. Skills learned in this class prepare students for careers in the floral and horticulture industry or can be for personal use. FFA activities will also be discussed.

**Pathways:** Plant Science

**Credit:** CTE or Fine Arts

One Trimester

Grades: 9-12

**Greenhouse Management**

Students will develop knowledge and skills related to the greenhouse industry. Greenhouse operations and management will be the primary units of study. Students will be prepared to produce commercial plant species in a controlled environment, and manage commercial and experimental greenhouse operations. Students will be growing greenhouse crops for sale in the spring. Students will also be highly encouraged to be a part of the FFA program

**Pathway:** Plant Science

**Credit:** CTE

One Trimester

Grades: 9-12



**CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or

U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** *Elective for all CTE pathways*

**Credit:** CTE

*1-2 Trimesters*

**Grades:** 11-12

## Architecture & Construction

CAREER CLUSTER: Architecture & Construction		
CAREER PATHWAY: Architectural Design (CAD)*		
EXPLORER COURSES:		
Choose one or more of the following courses.		
CAD Architectural Design I	Construction Trades Foundation	
CONCENTRATOR COURSES:		
To be a concentrator you must pass one of the following courses AND one explorer course.		
CAD Architectural Design II		
COMPLETER COURSES:		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
CAD Architectural Design III	CTE Internship	
*This is an incomplete MHS Pathway		

### **CAD Architectural Design T1, T2, and T3**

This is a sequence of courses that prepare individuals for careers in the Architectural, Engineering, and Construction (ACE) Industry. This course includes instruction in 2D and 3D Computer-Aided Design (CAD) software to draw a small residential home with an emphasis on blueprint reading. Students will be placed in Architectural Design 1, 2, and 3 based on the level of completion they have attained in prior classes.

**Pathway:** *CAD Mechanical Design, Mechanical Engineering, Carpentry*

**Credit:** CTE

*One Trimester (may repeat for additional programs)*

*Grades: 9-12*

**Construction Trades Foundation** A course that generally prepares individuals in the following areas: basic safety, introduction to blueprint reading, introduction to power tools, introduction to hand tools, and introduction to construction math. It also includes an industry overview, what to expect on the job and specific career opportunities. It is designed to allow for replica house building on a 1/4"=1'0" scale. This course is based on the current National Center for Construction Education and Research (NCCER) task list.

**Pathway:** *Architectural Design, Construction and Structural Systems*

**Credit:** CTE

*One Trimester*

*Grades: 9-12*

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** *Elective for all CTE pathways*

**Credit:** CTE

*1-2 Trimesters*

**Grades:** 11-12

CAREER CLUSTER: Architecture & Construction		
CAREER PATHWAY: Construction & Structural Systems*		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
CAD Architectural Design I	Construction Trades Foundation	Woods I
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
CTE Internship		
<b>*This is an incomplete MHS Pathway</b>		

**Construction Trades Foundation** A course that generally prepares individuals in the following areas: basic safety, introduction to blueprint reading, introduction to power tools, introduction to hand tools, and introduction to construction math. It also includes an industry overview, what to expect on the job and specific career opportunities. It is designed to allow for replica house building on a ¼"=1'0" scale. This course is based on the current National Center for Construction Education and Research (NCCER) task list.

**Pathway:** *Architectural Design, Construction and Structural Systems*

**Credit:** CTE

*One Trimester*

*Grades: 9-12*

### **CAD Architectural Design T1, T2, and T3**

This is a sequence of courses that prepare individuals for careers in the Architectural, Engineering, and Construction (ACE) Industry. This course includes instruction in 2D and 3D Computer-Aided Design (CAD) software to draw a small residential home with an emphasis on blueprint reading. Students will be placed in Architectural Design 1, 2, and 3 based on the level of completion they have attained in prior classes.

**Pathway:** *CAD Mechanical Design, Mechanical Engineering, Carpentry*

**Credit:** CTE

*One Trimester (may repeat for additional programs)*

*Grades: 9-12*

### **Woods 1**

The first in a sequence of courses that prepares individuals to apply technical knowledge and skills to lay-out, shape, assemble, and finish projects. Value is placed on developing craftsmanship, production sense, and design principles. This course emphasizes the safe use of a variety of hand tools, power tools, and machinery.

**Pathway:** *Construction and Structural Systems, Engineering, Mechanical Design (CAD), Manufacturing, and Production*

**Credit:** CTE

*One Trimester*

*Grades: 9-12*

**\*Fee: Project materials (cost determined by type of project)**

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** *Elective for all CTE pathways*

**Credit:** CTE

1-2 Trimesters

**Grades:** 11-12

<b>CAREER CLUSTER: Architecture &amp; Construction</b>		
<b>CAREER PATHWAY: Interior Design</b>		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
Business Communication I	CAD Architectural Design I	
Digital Media I	Interior Design I	
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
Interior Design II		
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
Interior Design III-Advanced	CTE Internship	

### **Business Communications I**

Communication skills rank in the top five skills employers are demanding. Business Communication affects all aspects of our lives.

- This introductory course will teach students to communicate in a clear, courteous, concise, complete, and correct manner on both the personal and professional levels
- Competency will be developed in oral, written, interpersonal, technological, and employment communication
- Listening skills will be incorporated throughout the semester

The overriding goal is to provide students with a solid communication base, so they can communicate effectively.

**Pathway:** *Accounting and Finance, Business Administration, Business Information Management, and Marketing*

**Credit:** *CTE or English Elective*

*One Trimester*

*Grades: 9-12*

### **CAD Architectural Design T1, T2, and T3**

This is a sequence of courses that prepare individuals for careers in the Architectural, Engineering, and Construction (ACE) Industry. This course includes instruction in 2D and 3D Computer-Aided Design (CAD) software to draw a small residential home with an emphasis on blueprint reading. Students will be placed in Architectural Design 1, 2, and 3 based on the level of completion they have attained in prior classes.

**Pathway:** *CAD Mechanical Design, Mechanical Engineering, Carpentry*

**Credit:** *CTE*

*One Trimester (may repeat for additional programs)*

*Grades: 9-12*

### **Digital Media I- (Formerly Digital Graphic Arts)**

Digital Media is the process of analyzing, designing and developing interactive media. Digital Media I is the first-year digital media course where students will create and learn digital media applications while using elements of text, graphics, animation, sound, video, and digital imaging for various formats. These abilities will prepare students for entry-level multimedia positions and provide fundamental 21<sup>st</sup> century learning skills beneficial for other occupational/educational endeavors.

**Pathway:** *Graphic Design and Communication: Commercial Photography, Digital Media, Graphics Printing, Commercial Art, and Broadcasting: Audio/Visual Production Professional, Broadcasting Professional, Web Development*

**Credit:** *CTE or Fine Arts*

*One Trimester*

*Grades: 9-12*

### **Interior Design I**

This course explores the field of interior design through engaging learning activities. Identification and use of the elements and principles of design are emphasized. Other topics are furniture arrangements, floor plan evaluation,

space planning, and design-related careers. Skills learned can be applied to current living environment and future career options.

**Pathway:** Interior Design

**Credit:** CTE

One Trimester

Grades: 9-12

### Interior Design II

This course provides the opportunity for students to develop skills in applying the elements and principles of design to interiors. Projects are integrated throughout the course to provide applications as the students' study architecture, furniture styles and construction, surface treatments, lighting, window treatments, upholstery and more.

**Concurrent Enrollment Credit may be earned through Weber State University but is not required.**

**Prerequisite:** Interior Design I

**Pathway:** Interior Design

**Credit:** CTE

One Trimester

Grades: 9-12



### Interior Design II CE (WSU IDT 1010)

This course provides the opportunity for students to develop skills in applying the elements and principles of design to interiors. Projects are integrated throughout the course to provide applications as the students' study architecture, furniture styles and construction, surface treatments, lighting, window treatments, upholstery and more.

**Concurrent Enrollment Credit may be earned through Weber State University but is not required.**

**Prerequisite:** Interior Design I

**Pathway:** Interior Design

**Credit:** CTE

One Trimester

Grades: 9-12

### Interior Design III- Advanced

Students will develop industry skills by applying previous content acquired in Interior Design I and II. Projects are integrated throughout the course to provide students with hands on application as they explore careers in interior design, design technology, product specification, sustainability and universal design.

**Prerequisite:** Interior Design I & Interior Design II

**Pathway:** Interior Design

**Credit:** CTE

One Trimester

Grades: 11-12

### CTE Pathways Internship

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** Elective for all CTE pathways

**Credit:** CTE

1-2 Trimesters

Grades: 11-12

## Arts, Audio/Visual Technology & Communication

<b>CAREER CLUSTER: Arts, Audio/Visual Technology &amp; Communications</b>		
<b>CAREER PATHWAY: Broadcasting &amp; Digital Media</b>		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
Computer Programming I	Digital Media I	Web Development I
Computer Science Principles	Screen Printing Technology	
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
Digital Media II-Video, Audio, E-Portfolio		
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
CTE Internship		

### **Computer Programming 1**

An introductory course in program engineering and applications. The course introduces students to the fundamentals of computer programming. Students will learn to design, code, and test their own programs while applying mathematical concepts. Students will be introduced to coding concepts and problem-solving skills (debugging) as they create computer programs with C++, C#, Java, Python, or JavaScript. Students will be also introduced to more complex data structures and their uses, including arrays and classes. Students will learn to more create powerful programs.

**Pathway:** *Cybersecurity, Information Technology Systems, Programming and Software Development*

**Credit:** *CTE or Science or Digital Studies*

*One Trimester*

*Grades 9-12*

### **Digital Media I- (Formerly Digital Graphic Arts)**

Digital Media is the process of analyzing, designing and developing interactive media. Digital Media I is the first-year digital media course where students will create and learn digital media applications while using elements of text, graphics, animation, sound, video, and digital imaging for various formats. These abilities will prepare students for entry-level multimedia positions and provide fundamental 21<sup>st</sup> century learning skills beneficial for other occupational/educational endeavors.

**Pathway:** *Graphic Design and Communication: Commercial Photography, Digital Media, Graphics Printing, Commercial Art, and Broadcasting: Audio/Visual Production Professional, Broadcasting Professional, Web Development*

**Credit:** *CTE or Fine Arts*

*One Trimester*

*Grades: 9-12*



### **Web Development I CE (WSU WEB 1400)**

Students will learn the fundamentals of how the internet works. They will learn and use the basic building blocks of the World Wide Web: HTML5 coding, Cascading Style Sheets (CSS), and JavaScript. They will follow the steps to create a website by planning, designing, developing, deploying, and maintaining website projects. Students will learn and use different scripting technologies to create more dynamic and interactive websites. They will learn what it takes for a career in web development as they complete projects and create their own website.

**Pathway:** *Web Development, Entrepreneurship, Office/Administrative/Support, Graphic Design & Communication: Digital Media*

**Credit:** *CTE or Digital Studies and WSU 3*

*One Trimester*

*Grades: 9-12*

**\*Fee:** *WSU Registration \$30.00/Tuition \$20*



### **Computer Science Principles / Computer Science Principles 1 CE (CS 1030)**

**College Credit Available: \$20 Tuition**

Computer Science Principles is a new course that follows a project to develop a computer science source that seeks to broaden participation in computing and computer science. The course places emphasis on the principles of computer science rather than just programming. Big ideas and concepts include:

1. Computing is a creative activity.
2. Abstraction reduces information and detail to facilitate focus on relevant concepts.
3. Data and information facilitate the creation of knowledge.
4. Algorithms are used to develop and express solutions to computational problems.
5. Programming enables problem solving, human expression, and creation of knowledge.
6. The Internet pervades modern computing.
7. Computing had global impacts.

Note: CSP course is currently a 1.0 credit course. There is a need to collect the most relevant concepts and include them into a trimester of the course to match the Digital Studies requirement.

**Pathway:** *Cybersecurity, Information Technology Systems, Programming and Software Development, Web Development*

**Credit:** *CTE or Science or Digital Studies*

*One Trimester*

*Grades 9-12*

### **Screen Printing Technology (Apparel Design)**

This course is designed to provide students with the knowledge to create, produce and reproduce visual graphics that communicate to an audience. Develop the knowledge and skills relative to the graphic design and screen-printing industries. Includes instructions and hands-on experiences in design and layout, digital prep of designs, and multiple color printing processes on various substrates. Provides an overview of the screen-printing and print making industries on the commercial level. Instructions include the use of industry standard graphics software with the Adobe Creative Suite.

**Prerequisite:** Digital Graphic Arts Intro **or** Commercial & Advertising Art **or** Digital Media I

**Pathway:** *Graphic Design & Communication: Graphics Printing*

**Credit:** *Fine Arts or CTE*

*One Trimester*

*Grades: 10-12*

### **Digital Media II – Video, Audio, E-Portfolio**

Digital Media II is a second-year course within the digital pathway where students will develop advanced skills in design, create interactive projects using graphics, animation and video, and have opportunities to learn advanced screen printing, heat press vinyl, sublimation, UV printing and other print methods used in Industry. These skills can prepare students for entry level positions and other occupational/educational goals.

**Prerequisite:** Screen Printing Technology, Digital Media I

**Pathway:** *Graphic Design and Communication: Digital Media*

**Credit:** *CTE or Fine Arts*

*One Trimester*

*Grades: 10-12*

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** *Elective for all CTE pathways*

**Credit:** *CTE*

*1-2 Trimesters Grades: 11-12*



CAREER CLUSTER: Arts, Audio/Visual Technology & Communications		
CAREER PATHWAY: Fashion Apparel & Textiles*		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
Digital Media I	Sports and Outdoor Design I	Screen Printing Technology
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
Sports and Outdoor Design II		
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
CTE Internship		
*This is an incomplete MHS Pathway		

### Digital Media I- (Formerly Digital Graphic Arts)

Digital Media is the process of analyzing, designing and developing interactive media. Digital Media I is the first-year digital media course where students will create and learn digital media applications while using elements of text, graphics, animation, sound, video, and digital imaging for various formats. These abilities will prepare students for entry-level multimedia positions and provide fundamental 21<sup>st</sup> century learning skills beneficial for other occupational/educational endeavors.

**Pathway:** *Graphic Design and Communication: Commercial Photography, Digital Media, Graphics Printing, Commercial Art, and Broadcasting: Audio/Visual Production Professional, Broadcasting Professional, Web Development*

**Credit:** CTE or Fine Arts

One Trimester

Grades: 9-12



### Sports and Outdoor Design I /

#### Sports & Outdoor Design (USU FCSE 1020)

This class is a beginning sewing class that will introduce basic design and construction skills using technical fabrics and lab equipment to make projects for the outdoor/sports industry. Students will also learn about and prepare for employment opportunities in the outdoor/sports industry. **Concurrent Enrollment Credit may be earned through Utah State University** as well. Students are responsible for purchasing their fabric and any individual supplies. Students may repeat this course with teacher approval.

**Pathway:** *Fashion, Apparel & Textiles*

**Credit:** CTE and/or 3 CE Credits for Utah State University

One Trimester

Grades: 9-12

### Screen Printing Technology (Apparel Design)

This course is designed to provide students with the knowledge to create, produce and reproduce visual graphics that communicate to an audience. Develop the knowledge and skills relative to the graphic design and screen-printing industries. Includes instructions and hands-on experiences in design and layout, digital prep of designs, and multiple color printing processes on various substrates. Provides an overview of the screen-printing and print making industries on the commercial level. Instructions include the use of industry standard graphics software with the Adobe Creative Suite.

**Prerequisite:** Digital Graphic Arts Intro or Commercial & Advertising Art or Digital Media I

**Pathway:** *Graphic Design & Communication: Graphics Printing*

**Credit:** Fine Arts or CTE

One Trimester

Grades: 10-12

**Sports and Outdoor Design II**

Students will further strengthen and broaden sports and outdoor design and production techniques. In this course they design and construct intermediate level projects using various construction intermediate level projects using various construction techniques.

These skills prepare students for the exciting global sports and outdoor industry and entrepreneurial opportunities.

**Prerequisite:** Sports and Outdoor Product Design I

**Pathway:** *Fashion, Apparel & Textiles*

**Credit:** CTE

**CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** *Elective for all CTE pathways*

**Credit:** CTE

*1-2 Trimesters*

**Grades:** 11-12

<b>CAREER CLUSTER: Arts, Audio/Visual Technology &amp; Communications</b>		
<b>CAREER PATHWAY: Graphic Design &amp; Communication*</b>		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
Digital Media I		
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
Commercial Photography I	Screen Printing Technology	
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
Commercial Photography II	CTE Internship	
<b>*This is an incomplete MHS Pathway</b>		

### **Digital Media I- (Formerly Digital Graphic Arts)**

Digital Media is the process of analyzing, designing and developing interactive media. Digital Media I is the first-year digital media course where students will create and learn digital media applications while using elements of text, graphics, animation, sound, video, and digital imaging for various formats. These abilities will prepare students for entry-level multimedia positions and provide fundamental 21<sup>st</sup> century learning skills beneficial for other occupational/educational endeavors.

**Pathway:** *Graphic Design and Communication: Commercial Photography, Digital Media, Graphics Printing, Commercial Art, and Broadcasting: Audio/Visual Production Professional, Broadcasting Professional, Web Development*

**Credit:** *CTE or Fine Arts*

*One Trimester*

*Grades: 9-12*

### **Commercial Photography I**

Introduction to getting started in commercial digital photography. This course will cover basic concepts for purchasing a digital camera, image capture, image editing, and image output. This will enable the digital camera user to purchase and more comfortably use the camera that will best suit their present and future needs.

**Pathway:** *Graphic Design and Communication: Commercial Photography, Commercial Art and Broadcasting: Audio/Visual Production Professional*

**Credit:** *CTE or Fine Arts*

*One Trimester*

*Grades: 9-12*

### **Screen Printing Technology (Apparel Design)**

This course is designed to provide students with the knowledge to create, produce and reproduce visual graphics that communicate to an audience. Develop the knowledge and skills relative to the graphic design and screen-printing industries. Includes instructions and hands-on experiences in design and layout, digital prep of designs, and multiple color printing processes on various substrates. Provides an overview of the screen-printing and print making industries on the commercial level. Instructions include the use of industry standard graphics software with the Adobe Creative Suite.

**Prerequisite:** *Digital Graphic Arts Intro or Commercial & Advertising Art or Digital Media I*

**Pathway:** *Graphic Design & Communication: Graphics Printing*

**Credit:** *Fine Arts or CTE*

*One Trimester*

*Grades: 10-12*

### **Commercial Photography II**

Students will experience an in-depth study of technical aspects of photography including lenses, camera, basic composition, displaying photos, studio lighting and motion pictures. Included is a study of the principles and elements of art and artistic design as they apply to photography.

**Prerequisites:** *Basic Digital Photography*

**Pathway:** *Graphic Design and communication: Commercial Photography and Broadcasting: Audio/Visual Production Professional*

**Credit:** *CTE or Fine Arts*

*One Trimester*

**Grades:** *10-12*

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** *Elective for all CTE pathways*

**Credit:** *CTE*

*1-2 Trimesters*

**Grades:** *11-12*

## **Business, Finance and Marketing**

<b>CAREER CLUSTER: Business, Finance &amp; Marketing</b>		
<b>CAREER PATHWAY: Business Information Management</b>		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
Accounting I	Entrepreneurship	
Business Communications I	Web Development I	
Digital Media I		
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
Business Office Specialist		
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
CTE Internship		

### **Accounting I**

Accounting may be the best route to a successful business career because accounting is the language and basic tools of business. Students will develop skills beginning with an understanding of the basic elements and concepts of double entry accounting systems related to a service business organized as a sole proprietorship. Skills include:

- Understanding the accounting equation
- Analyzing business transactions
- Entering transactions in journals
- Posting to ledgers
- Compiling end-of-period financial statements
- Preparing closing entries
- Managing and protecting cash

*It is strongly recommended to register for Accounting II after this course.*

**Prerequisite:** Secondary Math I and II

**Pathway:** Accounting and Finance, Business Administration, Business Information Management, Marketing

**Credit:** CTE or Mathematics Elective

One Trimester

Grades: 9-12

### **Business Communications I**

Communication skills rank in the top five skills employers are demanding. Business Communication affects all aspects of our lives.

- This introductory course will teach students to communicate in a clear, courteous, concise, complete, and correct manner on both the personal and professional levels
- Competency will be developed in oral, written, interpersonal, technological, and employment communication
- Listening skills will be incorporated throughout the semester

The overriding goal is to provide students with a solid communication base, so they can communicate effectively.

**Pathway:** Accounting and Finance, Business Administration, Business Information Management, and Marketing

**Credit:** CTE or English Elective

One Trimester

Grades: 9-12



### **Web Development I CE (WSU WEB 1400)**

Students will learn the fundamentals of how the internet works. They will learn and use the basic building blocks of the World Wide Web: HTML5 coding, Cascading Style Sheets (CSS), and JavaScript. They will follow the steps to create a website by planning, designing, developing, deploying, and maintaining website projects.

Students will learn and use different scripting technologies to create more dynamic and interactive websites. They will learn what it takes for a career in web development as they complete projects and create their own website.

**Pathway:** *Web Development, Entrepreneurship, Office/Administrative/Support, Graphic Design & Communication: Digital Media*

**Credit:** *CTE or Digital Studies and WSU 3*

*One Trimester*

*Grades: 9-12*

**\*Fee:** *WSU Registration \$30.00/Tuition \$20*



### **Entrepreneurship (WSU ENTR 1002)**

Students will gain an understanding of the marketing and management principles necessary to start and operate their own business. They will develop an awareness of the opportunities for small business ownership and develop the planning skills needed to open a small business.

- Students will become aware of the traits and characteristics of successful entrepreneurs.
- Students gain an awareness of knowledge needed in research, planning and regulations affecting the small business and the means of financing a small business.
- They will understand the specific strategies of business management and marketing and the economic role of the entrepreneur in the market system.

Entrepreneurship is designed for students enrolled in business and marketing education, and/or other courses, who have an interest in developing skills, attitudes, and knowledge necessary for successful entrepreneurs.

**Pathway:** *Accounting and Finance, Business Administration, Business Information Management, Marketing, Web Development*

**Credit:** *CTE*

*One Trimester*

*Grades: 9-12*

### **Accounting II**

This course is strongly recommended for any student interested in anticipating a career in any business, especially the finance areas. This course will teach you how to financially evaluate an existing company using accounting ratios. Students will develop advanced skills that build upon those acquired in Accounting I. Students continue applying concepts of double-entry accounting systems related to a merchandising business. Additional accounting skills will be developed, including:

- Preparing and journalizing payroll records
- Calculating and recording adjusting entries
- Interpreting financial information
- Exposure to automated accounting procedures is strongly encouraged

**Prerequisite:** Accounting I

**Pathway:** *Accounting and Finance*

**Credit:** *Mathematics Elective or CTE*

*One Trimester*

*Grades: 9-12*

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** *Elective for all CTE pathways*

**Credit:** *CTE*

*1-2 Trimesters*

**Grades:** *11-12*

CAREER CLUSTER: Business, Finance & Marketing		
CAREER PATHWAY: Finance		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
Accounting I	Entrepreneurship	Web Development I
Business Communications I	Sports and Entertainment Marketing	
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
Accounting II		
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
CTE Internship		

### Accounting 1

Accounting may be the best route to a successful business career because accounting is the language and basic tools of business. Students will develop skills beginning with an understanding of the basic elements and concepts of double entry accounting systems related to a service business organized as a sole proprietorship. Skills include:

- Understanding the accounting equation
- Analyzing business transactions
- Entering transactions in journals
- Posting to ledgers
- Compiling end-of-period financial statements
- Preparing closing entries
- Managing and protecting cash

*It is strongly recommended to register for Accounting II after this course.*

**Prerequisite:** Secondary Math I and II

**Pathway:** Accounting and Finance, Business Administration, Business Information Management, Marketing

**Credit:** CTE or Mathematics Elective

One Trimester

Grades: 9-12

### Business Communications I

Communication skills rank in the top five skills employers are demanding. Business Communication affects all aspects of our lives.

- This introductory course will teach students to communicate in a clear, courteous, concise, complete, and correct manner on both the personal and professional levels
- Competency will be developed in oral, written, interpersonal, technological, and employment communication
- Listening skills will be incorporated throughout the semester

The overriding goal is to provide students with a solid communication base, so they can communicate effectively.

**Pathway:** Accounting and Finance, Business Administration, Business Information Management, and Marketing

**Credit:** CTE or English Elective

One Trimester

Grades: 9-12

### Digital Media I- (Formerly Digital Graphic Arts)

Digital Media is the process of analyzing, designing and developing interactive media. Digital Media I is the first-year digital media course where students will create and learn digital media applications while using elements of text, graphics, animation, sound, video, and digital imaging for various formats. These abilities will prepare students for entry-level multimedia positions and provide fundamental 21st Century Learning skills beneficial for other occupational/educational endeavors.

Additional Suggested Prerequisite: Art / Drawing

**Pathway:** *Graphic Design & Communication: Commercial Photography, Digital Media, Graphics Printing, Commercial Art, and Broadcasting: Audio/Visual Production Professional, Broadcasting Professional, Web Development*

**Credit:** *Fine Arts or CTE*

*One Trimester*

*Grades: 9-12*



### **Entrepreneurship (WSU ENTR 1002)**

Students will gain an understanding of the marketing and management principles necessary to start and operate their own business. They will develop an awareness of the opportunities for small business ownership and develop the planning skills needed to open a small business.

- Students will become aware of the traits and characteristics of successful entrepreneurs.
- Students gain an awareness of knowledge needed in research, planning and regulations affecting the small business and the means of financing a small business.
- They will understand the specific strategies of business management and marketing and the economic role of the entrepreneur in the market system.

Entrepreneurship is designed for students enrolled in business and marketing education, and/or other courses, who have an interest in developing skills, attitudes, and knowledge necessary for successful entrepreneurs.

**Pathway:** *Accounting and Finance, Business Administration, Business Information Management, Marketing, Web Development*

**Credit:** *CTE*

*One Trimester*

*Grades: 9-12*

### **Sports and Entertainment Marketing**

This is an introductory and specialized marketing course that will help students gain an understanding of marketing concepts as they apply to sports and entertainment industry.

- The areas this course will cover include: core marketing standards, market segmentation, target marketing, the event marketing triangle (events, fans, and sponsors), sports and entertainment promotion and marketing plans.
- Explore the key areas associated with sports marketing plans while working in small teams
- Gain interpersonal skills through working with peers and classroom presentations

**Pathway:** *Accounting and Finance, Business Administration, Marketing*

**Credit:** *CTE*

*One Trimester*

*Grades: 9-12*



### **Web Development I CE (WSU WEB 1400)**

Students will learn the fundamentals of how the internet works. They will learn and use the basic building blocks of the World Wide Web: HTML5 coding, Cascading Style Sheets (CSS), and JavaScript. They will follow the steps to create a website by planning, designing, developing, deploying, and maintaining website projects. Students will learn and use different scripting technologies to create more dynamic and interactive websites. They will learn what it takes for a career in web development as they complete projects and create their own website.

**Pathway:** *Web Development, Entrepreneurship, Office/Administrative/Support, Graphic Design & Communication: Digital Media*

**Credit:** *CTE or Digital Studies and WSU 3*

*One Trimester*

*Grades: 9-12*

**\*Fee: WSU Registration \$30.00/Tuition \$20**



### **Business Management / Business Management CE (WSU BSAD 1010)**

**College Credit Available: \$15 Tuition**

The Business Management course seeks to develop sound management concepts within students, as management plays a role in future employment opportunity. Effective management requires decision-making abilities, long-range planning knowledge, human relations expertise, and motivational skills. Students learn four basic functions of management: planning, organizing, directing, and controlling. Students will be able to:

- Describe and discuss why companies exist and how they influence society



- Analyze and examine what managers do, focusing on leadership and decision-making
- Synthesize, and evaluate data from the other functional areas or business (e.g., marketing, finance, and production/operation)

**Pathway:** *Business Administration*

**Credit:** *CTE*

*One Trimester*

**Grades:** *10-12*

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** *Elective for all CTE pathways*

**Credit:** *CTE*

*1-2 Trimesters*

**Grades:** *11-12*

<b>CAREER CLUSTER: Business, Finance &amp; Marketing</b>		
<b>CAREER PATHWAY: Business Information Management</b>		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
Accounting I	Entrepreneurship	
Business Communications I	Web Development I	
Digital Media I		
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
Business Office Specialist		
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
CTE Internship		

### Accounting I

Accounting may be the best route to a successful business career because accounting is the language and basic tools of business. Students will develop skills beginning with an understanding of the basic elements and concepts of double entry accounting systems related to a service business organized as a sole proprietorship. Skills include:

- Understanding the accounting equation
- Analyzing business transactions
- Entering transactions in journals
- Posting to ledgers
- Compiling end-of-period financial statements
- Preparing closing entries
- Managing and protecting cash

*It is strongly recommended to register for Accounting II after this course.*

**Prerequisite:** Secondary Math I and II

**Pathway:** Accounting and Finance, Business Administration, Business Information Management, Marketing

**Credit:** CTE or Mathematics Elective

One Trimester

Grades: 9-12

### Business Communications I

Communication skills rank in the top five skills employers are demanding. Business Communication affects all aspects of our lives.

- This introductory course will teach students to communicate in a clear, courteous, concise, complete,
- Competency will be developed in oral, written, interpersonal, technological, and employment communication
- Listening skills will be incorporated throughout the semester

The overriding goal is to provide students with a solid communication base, so they can communicate effectively.

**Pathway:** Accounting and Finance, Business Administration, Business Information Management, and Marketing

**Credit:** CTE or English Elective

One Trimester

Grades: 9-12

### Digital Media I- (Formerly Digital Graphic Arts)

Digital Media is the process of analyzing, designing and developing interactive media. Digital Media I is the first-year digital media course where students will create and learn digital media applications while using elements of text, graphics, animation, sound, video, and digital imaging for various formats. These abilities will prepare students for entry-level multimedia positions and provide fundamental 21st Century Learning skills beneficial for other occupational/educational endeavors.

Additional Suggested Prerequisite: Art / Drawing

**Pathway:** *Graphic Design & Communication: Commercial Photography, Digital Media, Graphics Printing, Commercial Art, and Broadcasting: Audio/Visual Production Professional, Broadcasting Professional, Web Development*

**Credit:** *Fine Arts or CTE*

*One Trimester*

*Grades: 9-12*



### **Entrepreneurship (WSU ENTR 1002)**

Students will gain an understanding of the marketing and management principles necessary to start and operate their own business. They will develop an awareness of the opportunities for small business ownership and develop the planning skills needed to open a small business.

- Students will become aware of the traits and characteristics of successful entrepreneurs.
- Students gain an awareness of knowledge needed in research, planning and regulations affecting the small business and the means of financing a small business.
- They will understand the specific strategies of business management and marketing and the economic role of the entrepreneur in the market system.

Entrepreneurship is designed for students enrolled in business and marketing education, and/or other courses, who have an interest in developing skills, attitudes, and knowledge necessary for successful entrepreneurs.

**Pathway:** *Accounting and Finance, Business Administration, Business Information Management, Marketing, Web Development*

**Credit:** *CTE*

*One Trimester*

*Grades: 9-12*



### **Web Development I CE (WSU WEB 1400)**

Students will learn the fundamentals of how the internet works. They will learn and use the basic building blocks of the World Wide Web: HTML5 coding, Cascading Style Sheets (CSS), and JavaScript. They will follow the steps to create a website by planning, designing, developing, deploying, and maintaining of website projects. Students will learn and use different scripting technologies to create more dynamic and interactive websites. They will learn what it takes for a career in web development as they complete projects and create their own website.

**Pathway:** *Web Development, Entrepreneurship, Office/Administrative/Support, Graphic Design & Communication: Digital Media*

**Credit:** *CTE or Digital Studies and WSU 3*

*One Trimester*

*Grades: 9-12*

**\*Fee:** *WSU Registration \$30.00/Tuition \$20*



### **Business Office Specialist / Business Office Specialist CE (WSU WEB 1700)**

**College Credit Available: \$15 Tuition**

This course prepares students for immediate employment in multiple office settings. Students will learn how the Microsoft Suite allow businesses to complete day to day activities. Students will have the opportunity to obtain a Microsoft Office Specialist industry certificate through Microsoft and Certipoint. The certification is recognized worldwide as the best method for employers to validate computer skill proficiency.

- Course applies advanced concepts and principles using word processing (Microsoft Word), spreadsheet (Microsoft Excel), databases (Microsoft Access), and electronic presentation software (Microsoft PowerPoint)
- Integrate applications learned, discover connections with technology, and apply skills to other classes
- This course builds on skills included in Digital Literacy and is not an introductory course. Must have foundational knowledge of Microsoft Office

**Pathway:** *Business Information Management Pathway*

**Credit:** *CTE or Digital Studies*

*One Trimester*

*Grades: 9-12*

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** *Elective for all CTE pathways*

**Credit:** CTE

1-2 Trimesters

**Grades:** 11-12

CAREER CLUSTER: Computer Science & Information Technology		
CAREER PATHWAY: Cybersecurity		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
Computer Programming 1	Exploring Computer Science	
Computer Science Principles	Web Development	
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
Principles of Cyber Defense and Ethics		
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
CTE Internship		

### Computer Programming 1

An introductory course in program engineering and applications. The course introduces students to fundamentals of computer programming. Student will learn to design, code, and test their own programs while applying mathematical concepts. Students will be introduced to coding concepts and problem-solving skills (debugging) as they create computer programs with C++, C#, Java, Python, or JavaScript. Students will be also introduced to more complex data structures and their uses, including arrays and classes. Students will learn to more create powerful programs.

**Pathway:** *Cybersecurity, Information Technology Systems, Programming and Software Development*

**Credit:** *CTE or Science or Digital Studies*

*One Trimester*

*Grades 9-12*



### Computer Science Principles 1 CE (CS 1030)

**College Credit Available: \$20 Tuition**

Computer Science Principles is a new course that follows a project to develop a computer science source that seeks to broaden participation in computing and computer science. The course places emphasis on the principles of computer science rather than just programming. Big ideas and concepts include:

1. Computing is a creative activity.
2. Abstraction reduces information and detail to facilitate focus on relevant concepts.
3. Data and information facilitate the creation of knowledge.
4. Algorithms are used to develop and express solutions to computational problems.
5. Programming enables problem solving, human expression, and creation of knowledge.
6. The Internet pervades modern computing.
7. Computing had global impacts.

Note: CSP course is currently a 1.0 credit course. There is a need to collect the most relevant concepts and include them into a trimester of the course to match the Digital Studies requirement.

**Pathway:** *Cybersecurity, Information Technology Systems, Programming and Software Development, Web Development*

**Credit:** *CTE or Science or Digital Studies*

*One Trimester*

*Grades 9-12*

### Exploring Computer Science 1

This is an entry-level Digital Studies course for high school graduation. Exploring Computer Science 1 is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics. Rather than focusing the entire course on learning particular software tools or programming languages, the course is designed to focus conceptual ideas of computing and help students understand why certain tools or languages might be utilized to solve particular problems.

- The goal of Exploring Computer Science 1 is to develop in students the computational thinking practices of algorithm development, problem solving and programming within the context of problems that are relevant to the lives of today's students

- Students will also be introduced to topics such as interface design, limits of computers and societal and ethical issues.

**Pathway:** *Cybersecurity, Information Technology Systems, Programming & Software Development, Web Development*

**Credit:** *CTE or Digital Studies*

*One Trimester*

*Grades: 9-12*

### **Principles of Cyber Defense and Ethics**

This course will provide a comprehensive view of Cybersecurity across an organization. You will learn how to use features of modern operating systems to enhance an organization's security, understand inherent weaknesses in wireless and wired networks, and be better equipped to protect your employer's and your own information. As a prerequisite to advanced topics in ethical hacking, incident response and digital forensics, you will also learn about Cybersecurity career paths and how to further develop your skills in these areas.

**Prerequisite:** *Exploring Computer Science or Computer Science Principles or Computer Programming 1*

**Pathway:** *Cybersecurity*

**Credit:** *CTE*

*One Trimester*

*Grades: 9-12*

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** *CTE Pathway Coursework (See Mr. Ard)*

**Pathway:** *Elective for all CTE pathways*

**Credit:** *CTE*

*1-2 Trimesters*

**Grades:** *11-12*

<b>CAREER CLUSTER: Computer Science &amp; Information Technology</b>		
<b>CAREER PATHWAY: Programming &amp; Software Development</b>		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
Computer Programming I	Exploring Computer Science	
Computer Science Principles		
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
Computer Programming II	Game Development Fundamentals I	
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
CTE Internship		

### **Computer Programming 1**

An introductory course in program engineering and applications. The course introduces students to fundamentals of computer programming. Student will learn to design, code, and test their own programs while applying mathematical concepts. Students will be introduced to coding concepts and problem-solving skills (debugging) as they create computer programs with C++, C#, Java, Python, or JavaScript. Students will be also introduced to more complex data structures and their uses, including arrays and classes. Students will learn to more create powerful programs.

**Pathway:** *Cybersecurity, Information Technology Systems, Programming and Software Development*

**Credit:** *CTE or Science or Digital Studies*

*One Trimester*

*Grades 9-12*



### **Computer Programming 2 CE (CS 1400)**

**College Credit Available: \$20 Tuition**

This course builds on the concepts introduced in Computer Programming 1. This course introduces students to more complex data structures and their uses, including sequential files, arrays, and classes. Students will learn to create more powerful programs within a specific programming language including: Java, Python C++, C#, Swift.

**Prerequisite:** *Computer Programming 1 or Computer Science Principles or Instructor Approval*

**Pathway:** *Programming and Software Development*

**Credit:** *CTE or Science or Digital Studies*

**One Trimester**

**Grades 10-11**



### **Computer Science Principles 1 CE (CS 1030)**

**College Credit Available: \$20 Tuition**

Computer Science Principles is a new course that follows a project to develop a computer science source that seeks to broaden participation in computing and computer science. The course places emphasis on the principles of computer science rather than just programming. Big ideas and concepts include:

1. Computing is a creative activity.
2. Abstraction reduces information and detail to facilitate focus on relevant concepts.
3. Data and information facilitate the creation of knowledge.
4. Algorithms are used to develop and express solutions to computational problems.
5. Programming enables problem solving, human expression, and creation of knowledge.
6. The Internet pervades modern computing.
7. Computing had global impacts.

Note: CSP course is currently a 1.0 credit course. There is a need to collect the most relevant concepts and include them into a trimester of the course to match the Digital Studies requirement.

**Pathway:** *Cybersecurity, Information Technology Systems, Programming and Software Development, Web Development*

**Credit:** *CTE or Science or Digital Studies*

*One Trimester*

*Grades 9-12*

### **Exploring Computer Science 1**

This is an entry-level Digital Studies course for high school graduation. Exploring Computer Science 1 is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics. Rather than focusing the entire course on learning particular software tools or programming languages, the course is designed to focus conceptual ideas of computing and help students understand why certain tools or languages might be utilized to solve particular problems.

- The goal of Exploring Computer Science 1 is to develop in students the computational thinking practices of algorithm development, problem solving and programming within the context of problems that are relevant to the lives of today's students
- Students will also be introduced to topics such as interface design, limits of computers and societal and ethical issues.

**Pathway:** *Cybersecurity, Information Technology Systems, Programming & Software Development, Web Development*

**Credit:** *CTE or Digital Studies*

*One Trimester*

*Grades: 9-12*

### **Game Development Fundamentals 1**

This course is designed to provide students with knowledge and project-based experience of fundamental gaming development concepts relating to STEM. These concepts include game design, scripting, creation of digital assets, graphic resources, animations, understanding hardware, problem solving, critical thinking, collaboration, and project management.

**Prerequisite:** *Computer Science Principles or Computer Programming 1*

**Pathway:** *Programming and Software Development*

**Credit:** *CTE*

*One Trimester*

*Grades: 10-12*



### **WSU / Object-Oriented Programming (CS 1410)**

An introduction to the C++ language. Topics will include data types, control structures, functions, pointers, arrays, I/O streams, classes, objects, encapsulation, overloading, inheritance and use of these concepts in problem solving.

**Prerequisite:** *Computer Programming 2 CE (CS 1400), Computer Science Principles (CS 1030)*

**Pathway:** *Programming and Software Development*

**Credit:** *Science or CTE 1 and WSU 4*

*One WSU Semester*

*Grades: 11-12 (Enrollment priority given to seniors)*

*\*Book rental, fees, lab, and material costs will apply*



### **WSU / Introduction to Data Structures and Algorithms (CS 2420)**

General principles of common data structures and design of efficient algorithms. Topics include: arrays, linked-lists, stacks, queues, trees, graphs, tables, storage and retrieval structures, searching, sorting, hashing, and algorithmic analysis. Emphasis will be on abstraction, efficiency, re-usable code, and object-oriented implementation.

**Prerequisite:** *Object Oriented Programming CS 1410*

**Credit:** *Science or CTE 1 and WSU 4*

*One WSU Semester*

**Pathway:** *Programming and Software Development*

**Grades:** *11-12 (Enrollment priority given to seniors)*

*\*Book rental, fees, lab, and material costs will apply*

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career or may use a job that meets the requirements of the course. The first and last weeks of



the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** Elective for all CTE pathways

**Credit:** CTE

1-2 Trimesters

Grades: 11-12

CAREER CLUSTER: Computer Science & Information Technology		
CAREER PATHWAY: Web Development		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
Computer Science Principles	Entrepreneurship	Web Development I
Digital Media 1	Exploring Computer Science	
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
Web Development II		
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
CTE Internship		



### Computer Science Principles 1 CE (CS 1030)

**College Credit Available: \$20 Tuition**

Computer Science Principles is a new course that follows a project to develop a computer science source that seeks to broaden participation in computing and computer science. The course places emphasis on the principles of computer science rather than just programming. Big ideas and concepts include:

1. Computing is a creative activity.
2. Abstraction reduces information and detail to facilitate focus on relevant concepts.
3. Data and information facilitate the creation of knowledge.
4. Algorithms are used to develop and express solutions to computational problems.
5. Programming enables problem solving, human expression, and creation of knowledge.
6. The Internet pervades modern computing.
7. Computing had global impacts.

Note: CSP course is currently a 1.0 credit course. There is a need to collect the most relevant concepts and include them into a trimester of the course to match the Digital Studies requirement.

**Pathway:** *Cybersecurity, Information Technology Systems, Programming and Software Development, Web Development*

**Credit:** *CTE or Science or Digital Studies*

*One Trimester*

*Grades 9-12*

### Digital Media I- (Formerly Digital Graphic Arts)

Digital Media is the process of analyzing, designing and developing interactive media. Digital Media I is the first-year digital media course where students will create and learn digital media applications while using elements of text, graphics, animation, sound, video, and digital imaging for various formats. These abilities will prepare students for entry-level multimedia positions and provide fundamental 21st century learning skills beneficial for other occupational/educational endeavors.

**Pathway:** *Graphic Design and Communication: Commercial Photography, Digital Media, Graphics Printing, Commercial Art, and Broadcasting: Audio/Visual Production Professional, Broadcasting Professional, Web Development*

**Credit:** *CTE or Fine Arts*

*One Trimester*

*Grades: 9-12*

### Exploring Computer Science 1

This is an entry-level Digital Studies course for high school graduation. Exploring Computer Science 1 is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics. Rather than focusing the entire course on learning particular software tools or programming languages, the course is designed to focus conceptual ideas of computing and help students understand why certain tools or languages might be utilized to solve particular problems.

- The goal of Exploring Computer Science 1 is to develop in students the computational thinking practices of algorithm development, problem solving and programming within the context of problems that are relevant to the lives of today's students
- Students will also be introduced to topics such as interface design, limits of computers and societal and ethical issues.

**Pathway:** *Cybersecurity, Information Technology Systems, Programming & Software Development, Web Development*

**Credit:** *CTE or Digital Studies*

*One Trimester*

*Grades 9-12*



### **Web Development I CE (WSU WEB 1400)**

Students will learn the fundamentals of how the internet works. They will learn and use the basic building blocks of the World Wide Web: HTML5 coding, Cascading Style Sheets (CSS), and JavaScript. They will follow the steps to create a website by planning, designing, developing, deploying, and maintaining website projects. Students will learn and use different scripting technologies to create more dynamic and interactive websites. They will learn what it takes for a career in web development as they complete projects and create their own website.

**Pathway:** *Web Development, Entrepreneurship, Office/Administrative/Support, Graphic Design & Communication: Digital Media*

**Credit:** *CTE or Digital Studies and WSU 3*

*One Trimester*

*Grades: 9-12*

**\*Fee:** *WSU Registration \$30.00/Tuition \$20*

### **Web Development 2**

*Students will learn the fundamentals of how the internet works. They will learn and use the basic building blocks of the World Wide Web: HTML5 coding, Cascading Style Sheets (CSS), and JavaScript. They will follow the steps to create a website by planning, designing, developing, deploying, and maintaining website projects. Students will learn and use different scripting technologies to create more dynamic and interactive websites. They will learn what it takes for a career in web development as they complete projects and create their own website.*

**Pathway:** *Web Development*

**Credit:** *CTE*

*One Trimester*

*Grades: 9-12*

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career or may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** *CTE Pathway Coursework (See Mr. Ard)*

**Pathway:** *Elective for all CTE pathways*

**Credit:** *CTE*

*1-2 Trimesters*

*Grades: 11-12*

## Education and Training

CAREER CLUSTER: Education & Training		
CAREER PATHWAY: Pre-K: Early Childhood Education*		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
Child Development	Early Childhood Education	Food and Nutrition
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
CTE Internship		
*This is an incomplete MHS Pathway		



### **Child Development / Development of the Child WSU CHF (WSU CHF 2500)**

If you are interested in a career as a special education teacher, social worker, preschool teacher, elementary teacher or parent, child development will help prepare you for these careers. It is for both male and female students to help improve their skills in understanding, disciplining, loving, and teaching babies, toddlers, preschoolers and school age children.

**Pathway:** Pre-K: Early Childhood Education

**Credit:** CTE

One Trimester

Grades: 10-12



### **Early Childhood Education I / Introduction to Early Childhood Education WSU (WSU ECED 2600)**

This course can also be taken as CE Credit

This course prepares individuals for child-related careers in early childhood education (pre-school and elementary education) and/or more extensive parenting skills. Instruction given includes: applying developmentally appropriate practices (DAP) and developing lessons to teach children, maintaining a healthy environment for children, and developing positive relationship with children. Experiences with preschool and kindergarten children may be a component of this course.

**Prerequisite:** Child Development

**Pathway:** Pre-K: Early Childhood Education

**Credit:** CTE

One Trimester

Grades: 9-12

### **Foods I- Food and Nutrition**

A course that prepares individuals to understand the relationship of food and nutrition to health and well-being. This class focuses on the selection, preparation, and care of food as well as food safety and kitchen safety. This course cannot be repeated.

**Pathway:** Culinary Arts

**Credit:** CTE

One Trimester

Grades: 9-12

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details. This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways.

Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** *Elective for all CTE pathways*

**Credit:** CTE

*1-2 Trimesters*

*Grades: 11-12*

CAREER CLUSTER: Education & Training		
CAREER PATHWAY: K-12: Teaching as a Profession*		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
Business Communication I	Human Development	Teaching as a Profession I
English 1010	Math 1050	
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
CTE Internship		
*This is an incomplete MHS Pathway		

**Business Communications I**

Communication skills rank in the top five skills employers are demanding. Business Communication affects all aspects of our lives.

- This introductory course will teach students to communicate in a clear, courteous, concise, complete, and correct manner on both the personal and professional levels
- Competency will be developed in oral, written, interpersonal, technological, and employment communication
- Listening skills will be incorporated throughout the semester

The overriding goal is to provide students with a solid communication base, so they can communicate effectively.

**Pathway:** Accounting and Finance, Business Administration, Business Information Management, and Marketing

**Credit:** CTE or English Elective

One Trimester

Grades: 9-12



**WSU / English 1010 EN 1 Introductory College Writing**

English 1010 introduces students to the habits and practices necessary for writing well at the college level by providing them opportunities to write in a variety of styles and genres. Although individual pedagogy may vary from section to section, the course emphasis invention, organization, cohesion, focus and grammatical and mechanical correctness. Because the relationship between writing and reading is a reciprocal one, English 1010 also emphasizes students reading texts that are consistent with the kinds of reading assignments they will be asked to do in other university courses.

**Prerequisite:** 17 or higher on the ACT English portion, or equivalent.

**Credit:** English 1 and WSU 3

One WSU Semester

Grade: 12

**\*Book rental, fees, lab, and material costs will apply**



**Human Development (WSU CHF 1500)**

A survey course which addresses the developmental aspects of individuals across the lifespan. Course content encompasses the study of biological, cognitive, social, and emotional developmental changes of the healthy individual in the context of the family and society. It emphasizes and demonstrates the vital connections between theory, research, and application.

**Pathway:** Pre-K: Early Childhood Education

**Credit:** CTE 1 and WSU 3 One WSU Semester

Grades: 10-12 (Enrollment priority given to seniors)

**\*Fees: Book rental, fees, lab, and material cost will apply**



### **WSU / College Algebra 1050 A and B (MATH 1050)**

This is college algebra that will be taught at the high school.

This course will study real and complex number systems, graphs, inverse functions, polynomial and rational functions, exponential and logarithmic functions, systems of equations, elementary matrix algebra, and partial fractions.

Students will need a scientific calculator. TI-36 Pro is the preferred calculator and will be used as a model in class. Please note that graphing calculators are not allowed on the midterm or final.

For students majoring in science, technology, engineering, math, and business.

**Prerequisite:** ACT Math Score of 23 or better or pass ALEKS Test with a score of 60 or above.

Math III.

**Credit:** Mathematics

*Concurrent Enrollment with WSU (4 credits)*

*Two Trimesters*

*Grades: 11-12*

**\*Fee: Admission \$40.00 / Tuition \$5.00 per credit**

### **Teaching as a Profession**

This class is designed for students who are considering a career in education. Teaching as a Profession will introduce students to the role and positive influence of an effective educator. Students will explore various careers in education and develop employability skills to become a successful professional. Students will understand the value of multiculturalism and diversity in the classroom and how it enhances individual student learning. Students will identify instructional strategies and understand the role of technology and feedback in student engagement.

**Pathway:** Pre-K: Early Childhood Education, K-12: Teaching as a Profession

**Credit:** CTE

*One Trimester*

*Grades: 10-12*

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details. This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways.

Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills.

Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** Elective for all CTE pathways

**Credit:** CTE

*1-2 Trimesters*

*Grades: 11-12*

## Engineering and Technology

CAREER CLUSTER: Engineering & Technology		
CAREER PATHWAY: Engineering		
EXPLORER COURSES:		
Choose one or more of the following courses.		
CAD Architectural Design I	Composites I	Woods I
CAD Mechanical Design I	Welding Technician, Entry Level	
CONCENTRATOR COURSES:		
To be a concentrator you must pass one of the following courses AND one explorer course.		
CAD Mechanical Design II	Material Science	
COMPLETER COURSES:		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
CAD Mechanical Design III	CTE Internship	

### **CAD Architectural Design T1, T2, and T3**

This is a sequence of courses that prepare individuals for careers in the Architectural, Engineering, and Construction (ACE) Industry. This course includes instruction in 2D and 3D Computer-Aided Design (CAD) software to draw a small residential home with an emphasis on blueprint reading. Students will be placed in Architectural Design 1, 2, and 3 based on the level of completion they have attained in prior classes.

**Pathway:** CAD Mechanical Design, Mechanical Engineering, Carpentry

**Credit:** CTE

*One Trimester (may repeat for additional programs)*

*Grades: 9-12*



### **CAD Mechanical Design (Drafting) T1, T2 and T3**

A sequence of courses that prepares individuals to develop technical knowledge and skills required to plan and prepare scale pictorial interpretations and technical documentation of engineering and design concepts. This includes instruction in the use of 2D and 3D Computer aided Design (CAD) software, sketching, drawing layout, geometric construction, orthographic projection, and dimensioning. There is an emphasis in developing technical knowledge and skills to develop 3D models in support mechanical and industrial engineers, and related professionals. Use of the 3-D printer is incorporated into the curriculum. Students will advance into higher level course work as they complete modules in the class.

**Pathway:** CAD Mechanical Design, Mechanical Engineering, Carpentry

**Credit:** CTE

*One Trimester (may repeat for additional programs)*

*Grades: 9-12*

### **Composites I**

This course is the first in a sequence that will use technical; knowledge and skill to understand the properties of composites and to develop skills helpful in manufacturing parts using composite materials. This first course will discuss basic composite manufacturing, testing, and quality control procedures, safe use of equipment and tools, and process and procedures of composite fabrication or manufacturing.

**Pathway:** Aerospace Manufacturing

**Credit:** CTE

*One Trimester*

*Grades: 9-12*



### **Welding Technician T1, T2 and T3**

Shop course designed to teach basic, intermediate, and advanced welding skills. Students will learn multiple welding processes. Students are expected to pay for materials used for personal projects. Safety glasses and protective clothing are required. Concurrent enrollment credit is available through DTC where



they may complete the Welding Technician Credential for employment in the welding industry. Students may repeat this course multiple times and will continue to advance in the program. It is recommended that students serious about a welding career take the course all three trimesters.

**Pathway:** *Welding*

**Credit:** *CTE*

*One Trimester*

*Grades: 9-12 (may repeat to advance)*

**\*Fee: \$40.00 per year fee that will cover all DTC classes for that year.**

### **Woods 1**

The first in a sequence of courses that prepares individuals to apply technical knowledge and skills to lay-out, shape, assemble, and finish projects. Value is placed on developing craftsmanship, production sense, and design principles. This course emphasizes the safe use of a variety of hand tools, power tools, and machinery.

**Pathway:** *Construction and Structural Systems, Engineering, Mechanical Design (CAD), Manufacturing, and Production*

**Credit:** *CTE*

*One Trimester*

*Grades: 9-12*

**\*Fee: Project materials (cost determined by type of project)**

### **Material Science A and B**

This class will use the general application of math and science to analyze and study the characteristics and behavior of different types of materials such as composites (light-weight and high-strength products such as materials used in the making of aircrafts), ceramics (glass), and polymers (plastics), and metals. The material taught in this class will be done through labs and discussions. It is a great introductory course for those students who are interested in science, technology, engineering, mathematics, or manufacturing. This will be a hands-on learning environment.

**Pathway:** *Material Science*

**Credit:** *CTE or Science Elective*

*Two Trimesters*

*Grades: 9-12*

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** *Elective for all CTE pathways*

**Credit:** *CTE*

*1-2 Trimesters*

**Grades:** *11-12*

**Not in Pathway or Cluster at this time, but this course is offered through MHS**



**Automation and Robotics**

**TI, T2 and T3**

This is a 900-hour DTC Program including courses in Electronics, Programmable Logic Controllers (PLC's), Motor Controls, Hydraulics, Pneumatics, Drone Technology, Micro-Electronics, and more. This program is self-paced. High School CTE credit will be awarded each trimester and the DTC Credit will be awarded as the individual classes are completed (students can often complete more than one per trimester). When a student completes the entire program, there are opportunities for job placement with one of hundreds of employers waiting for program graduates, as well as 30 credit hours to take to USU or WSU or many other schools around the state.

**Credit:** CTE

*One Trimester (may repeat to continue the program)- **Offered before and after school.***

**Grades: 9-12**

## Health Science

<b>CAREER CLUSTER: Health Science</b>		
<b>CAREER PATHWAY: Health Science</b>		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
Human Development	Medical Anatomy & Physiology	Medical Terminology
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
Exercise Science /Sports Medicine	Medical Anatomy & Physiology, Advanced	Nurse Assistant (CNA)
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
CTE Internship		



### **Human Development (WSU CHS 1500)**

A survey course which addresses the developmental aspects of individuals across the lifespan. Course content encompasses the study of biological, cognitive, social, and emotional developmental changes of the healthy individual in the context of the family and society. It emphasizes and demonstrates the vital connections between theory, research, and application.

**Pathway:** Pre-K: Early Childhood Education

**Credit:** CTE 1 and WSU 3 One WSU Semester

**Grades:** 10-12 (Enrollment priority given to seniors)

**\*Fees:** Book rental, fees, lab, and material cost will apply

### **Medical Anatomy and Physiology A and B**

This course sets the foundation for students who are considering the pursuit of a health-related career. Structure, function, and activities of the human body are discussed. Each body system's anatomy and associated physiology are covered in moderate detail. Labs, including dissections of various organs and a visit to the cadaver lab, will be required for successful course completion.

**Prerequisite:** Biology A and B or Biology Honors (A, B, and C) or Agricultural Biology A and B

**Pathway:** Health Science

**Credit:** CTE or Science Elective

Two Trimesters

Grades: 11-12



### **Advanced Anatomy and Physiology A and B (WSU HS 1110/1111)**

Students who complete this course will have a head start on their healthcare careers. Advanced Human Anatomy and Physiology is a two-trimester course that studies the body system's anatomy and associated physiology at a college level. Course module topics include: the atomic and molecular levels of organization, cell biology and metabolism, microbiology, and the integumentary, skeletal and muscular body systems in part A. Part B module topics include: the nervous, endocrine, cardiovascular (blood), cardiovascular (heart and blood vessels), respiratory, digestive, urinary, and reproductive body systems. Labs, including dissections of various organs and a visit to the cadaver lab, will be required for successful course completion. Students should expect to spend approximately 12 hours (including class time) per week to receive a quality grade.

**Prerequisite:** Medical Anatomy and Physiology / Medical Terminology are highly recommended but not required

**Pathway:** Health Science

**Credit:** CTE (1 each section) and WSU (4 each section)

Two Trimesters

Grades: 11-12

**\*Fee:** \$20 Tuition / \$30 Visible Body account require

### **Medical Terminology**

Students will study and understand the Greek- and Latin-based language of medicine and healthcare. Emphasis is placed upon word roots, suffixes, prefixes, abbreviations, symbols, anatomical terms, and terms associated with movements of the human body. This course also stresses the proper pronunciation, spelling, and usage of medical terminology. This class is helpful to anyone considering going into the healthcare field.

**Pathway:** *Health Science*

**Credit:** *CTE or Science Elective*

*One Trimester*

*Grades: 10-12*



### **Exercise Science/Sports Medicine /**

#### **Exercise Science/Sports Medicine CE A and B (WSU RHS 2175)**

This course is designed to teach students components of exercise science/sports medicine; including exploration of therapeutic careers, medical terminology, anatomy and physiology, first aid, injury prevention principles, the healing process, rehabilitation techniques, therapeutic modalities, sport nutrition, sport psychology, and performance enhancement philosophies.

**Prerequisite:** Medical Anatomy and Physiology is highly recommended but not required

**Pathway:** *Exercise Science / Sports Medicine*

**Credit:** *CTE 1 and WSU 3*

*Two Trimesters*

*Grades: 10-12*

**\*Fee: Weber State \$15 if taking the CE course**



### **Nurse Assistant (CNA)**

The Davis Technical College (DTC) offers a program designed for high school students that leads to certification as a certified nurse assistant (CNA). This course is highly recommended for those interested in any health care careers and will provide a CNA certificate to those who pass the state exam at the end of the trimester. This is a one trimester course but will be blocked for two class periods back to back. Students will learn medical terminology, and basic knowledge and skills to use in a healthcare setting. This course also includes clinical hours in a long-term care facility.

**Pathway:** *TS-Nursing*

**Credit:** *CTE and DTC*

*Concurrent enrollment with Davis Technical College*

*Grades: 11-12 (16 years old)*

**\*Fee: DTC Enrollment \$55.00 + cost of books; state test \$75.00 (these fees are subject to change)**

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** *Elective for all CTE pathways*

**Credit:** *CTE*

*1-2 Trimesters*

*Grades: 11-12*

## Human Services

CAREER CLUSTER: Human Services		
CAREER PATHWAY: Family & Human Services*		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
Human Development (WSU CHF 1500)		
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
CTE Internship		
*This is an incomplete MHS Pathway		



### **Human Development (WSU CHF 1500)**

A survey course which addresses the developmental aspects of individuals across the lifespan. Course content encompasses the study of biological, cognitive, social, and emotional developmental changes of the healthy individual in the context of the family and society. It emphasizes and demonstrates the vital connections between theory, research, and application.

**Pathway:** Pre-K: Early Childhood Education

**Credit:** CTE 1 and WSU 3 One WSU Semester

**Grades:** 10-12 (Enrollment priority given to seniors)

**\*Fees:** Book rental, fees, lab, and material cost will apply

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** Elective for all CTE pathways

**Credit:** CTE

1-2 Trimesters

**Grades:** 11-12

## **Manufacturing**

<b>CAREER CLUSTER: Manufacturing</b>		
<b>CAREER PATHWAY: Manufacturing &amp; Production</b>		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
CAD Mechanical Design I	Composites	Woods I
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
Woods II		
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
Woods III	CTE Internship	
<b>*This is an incomplete MHS Pathway</b>		



### **CAD Mechanical Design (Drafting) T1, T2 and T3**

A sequence of courses that prepares individuals to develop technical knowledge and skills required to plan and prepare scale pictorial interpretations and technical documentation of engineering and design concepts. This includes instruction in the use of 2D and 3D Computer aided Design (CAD) software, sketching, drawing layout, geometric construction, orthographic projection, and dimensioning. There is an emphasis in developing technical knowledge and skills to develop 3D models in support mechanical and industrial engineers, and related professionals. Use of the 3-D printer is incorporated into the curriculum. Students will advance into higher level course work as they complete modules in the class.

**Pathway:** *CAD Mechanical Design, Mechanical Engineering, Carpentry*

**Credit:** CTE

*One Trimester (may repeat for additional programs)*

**Grades:** 9-12

### **Composites I**

This course is the first in a sequence that will use technical; knowledge and skill to understand the properties of composites and to develop skills helpful in manufacturing parts using composite materials. This first course will discuss basic composite manufacturing, testing, and quality control procedures, safe use of equipment and tools, and process and procedures of composite fabrication or manufacturing.

**Pathway:** *Aerospace Manufacturing*

**Credit:** CTE

*One Trimester*

**Grades:** 9-12

### **Woods 1**

The first in a sequence of courses that prepares individuals to apply technical knowledge and skills to lay-out, shape, assemble, and finish projects. Value is placed on developing craftsmanship, production sense, and design principles. This course emphasizes the safe use of a variety of hand tools, power tools, and machinery.

**Pathway:** *Construction and Structural Systems, Engineering, Mechanical Design (CAD), Manufacturing, and Production*

**Credit:** CTE

*One Trimester*

**Grades:** 9-12

**\*Fee:** *Project materials (cost determined by type of project)*

### **Woods 2**

The second instructional course in a sequence of courses that prepares individuals to apply technical knowledge and skills, set up and operate industrial woodworking machinery, and use such machinery to design and fabricate custom cabinets and architectural millwork. It stresses the safe use of trade hand and power tools and machinery used in the production of millwork items. Cabinets, such as kitchen and vanities, are constructed, finished, and installed as part of the program.

**Prerequisite:** Woods I

**Pathway:** *Manufacturing & Production*

**Credit:** CTE

*One Trimester*

*Grades: 9-12*

**\*Fee: No fee associated with school-related projects**

### **Woods 3**

The third instructional course in a sequence of courses that prepares individuals to apply technical knowledge and skills to lay-out, shape, assemble, and finish projects. Value is placed on developing craftsmanship, production sense, and design principles. This course emphasis the development of production principles in a manufacturing environment.

**Prerequisite:** Woods 1

**Pathway:** *Manufacturing & Production*

**Credit:** CTE

*One Trimester*

*Grades: 9-12*

**\*Fee: No fee associated with school-related projects. For student projects, fee is determined by type of project (cost of materials)**

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** *Elective for all CTE pathways*

**Credit:** CTE

*1-2 Trimesters*

**Grades:** 11-12

CAREER CLUSTER: Manufacturing		
CAREER PATHWAY: Welding & Machining		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
Welding Technician, Entry Level		
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
Welding Technician, Intermediate Level		
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
Welding Technician, Advanced Level	CTE Internship	



**Welding Technician  
T1, T2 and T3**

Shop course designed to teach basic, intermediate, and advanced welding skills. Students will learn multiple welding processes. Students are expected to pay for materials used for personal projects. Safety glasses and protective clothing are required. Concurrent enrollment credit is available through DTC where they may complete the Welding Technician Credential for employment in the welding industry. Students may repeat this course multiple times and will continue to advance in the program. It is recommended that students serious about a welding career take the course all three trimesters.

**Pathway:** *Welding*

**Credit:** *CTE*

*One Trimester*

*Grades: 9-12 (may repeat to advance)*

**\*Fee: \$40.00 per year fee that will cover all DTC classes for that year.**

**CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0 GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** *Elective for all CTE pathways*

**Credit:** *CTE*

*1-2 Trimesters*

**Grades:** *11-12*



## Transportation, Distribution, & Logistics

CAREER CLUSTER: Transportation, Distribution & Logistics		
CAREER PATHWAY: Diesel		
<b>EXPLORER COURSES:</b>		
Choose one or more of the following courses.		
Welding Technician, Entry Level		
<b>CONCENTRATOR COURSES:</b>		
To be a concentrator you must pass one of the following courses AND one explorer course.		
Diesel		
<b>COMPLETER COURSES:</b>		
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.		
Diesel	CTE Internship	



### **Welding Technician T1, T2 and T3**

Shop course designed to teach basic, intermediate, and advanced welding skills. Students will learn multiple welding processes. Students are expected to pay for materials used for personal projects. Safety glasses and protective clothing are required. Concurrent enrollment credit is available through DTC where they may complete the Welding Technician Credential for employment in the welding industry. Students may repeat this course multiple times and will continue to advance in the program. It is recommended that students serious about a welding career take the course all three trimesters.

**Pathway:** *Welding*

**Credit:** *CTE*

*One Trimester*

*Grades: 9-12 (may repeat to advance)*

**\*Fee: \$40.00 per year fee that will cover all DTC classes for that year.**



### **Diesel/Heavy Duty Technology**

The Diesel/Heavy Duty Technology Program provides training in a variety of diesel-powered vehicles, engines, and power systems. Students explore the theory of operation and preventative maintenance of diesel systems and progress to actual hands-on work in the maintenance and repair of transmissions, differentials, brakes, steering and suspension, wheel alignment, hydraulics and engine rebuilding. After demonstrating foundational knowledge, students begin working with the latest advances in the trucking industry in engine design, micro-processing, air conditioning, and transmissions.

**Prerequisite:** Entry Level Welding A, B and C

**Pathway:** *Transportation, Distribution & Logistics*

**Credit:** *CTE and DTC*

*Concurrent Enrollment with Davis Technical Center*

*This class will be taught at the Bus Barn, please see Counselors if transportation is needed*

*One Trimester*

*Grades: 11-12*

**\*Fee: \$40.00 per year fee that will cover all DTC classes for that year.**

### **CTE Pathways Internship**

All students must complete an orientation, prerequisite pathway coursework, and be approved to join this class. See Mr. Ard for more details.

This work-based learning course prepares students to be successful employees in the workforce while exploring future careers. It is a capstone for Career & Technical Education (CTE) Pathways. Internships can either be a paid or an unpaid experience (determined by employer). Students will be placed in an internship in a field they are considering as a future career **or** may use a job that meets the requirements of the course. The first and last weeks of the trimester must be spent in the classroom covering critical work place skills. Students must have a minimum 2.0

GPA and not have any F's or U's from the previous trimester. The student's work experience should be related to their College & Career Readiness (CCR) Plan.

**Prerequisite:** CTE Pathway Coursework (See Mr. Ard)

**Pathway:** Elective for all CTE pathways

**Credit:** CTE

1-2 Trimesters

**Grades:** 11-12

