

**MWISD**

**Mineral Wells  
High School  
Career Technical  
Education  
Course Offerings**

**2011-2012**

**3801 RAM BLVD. MINERAL WELLS. TX 76067 940.325.4408**

## Table of Contents

***Courses that offer one credit will be taught the full year with no entry or exit at mid-semester. Courses that offer two credits will be attended for two hours with not entry or exit at mid-semester.***

### **I. Charts of Career and Tech Courses**

1. Agriculture, Food & Natural Resources (Hageman & Horner) Page 4
2. Manufacturing (Hardy) Page 5
3. Business (Carlson, Carroll & Clark) Page 6
4. Information Technology (Hampton & Parker) Page 7
5. Parenting/Design (Eady) Culinary Arts/Hospitality & Tourism (Deisher) Page 8
6. Building Trades (Marsden) Health Science (Fade) Criminal Justice (Lindbloom) Page 9
7. Auto Tech (Griffin) CAD (Whittenburg) Page 10

### **II. CTE Courses/Career Clusters**

8. Agricultural Pages 11-13
9. Manufacturing Pages 14
10. Business Courses Pages 15-16
11. Finance Pages 17-18

12. <u>Information Technology</u>	<u>Page 18</u>
13. <u>Human Services</u>	<u>Page 19</u>
14. <u>Hospitality and Tourism</u>	<u>Page 20</u>
15. <u>Arts, A/V, Technology and Communicaton/Science, Technology,Engineering &amp; Mathematics</u>	<u>Pages 21-23</u>
16. <u>Architecture &amp; Construction</u>	<u>Pages 24-25</u>
17. <u>Health Science</u>	<u>Pages 26-27</u>
18. <u>Law, Public Safety, Corrections &amp; Security</u>	<u>Page 28</u>
19. <u>Transportation, Distribution and Logistics</u>	<u>Page 29</u>
20. <u>Career Prepartion I &amp; II</u>	<u>Page 30</u>
21. <u>Cosmetology I &amp; II</u>	<u>Page 31</u>
22. <u>CTE Student Organizations</u>	<u>Page 32</u>

- *The Principle classes in CTE classes are a prerequisite to all other classes underneath the specific career cluster.*
- *The following CTE classes require an application to be enrolled in the class and the approval of the teacher.*
  - *Career Prep I & II*
- *Many of the CTE class offerings allow a student to earn Tech Prep credit or dual credit. (These are listed in the catalogue of courses.)*

# Agriculture, Food & Natural Resources (Hageman & Horner)



<b>Ag Science</b> <b>Hageman</b> Teacher	<b>Ag Science Hageman continued</b> <b>Professional Communications</b> 1 <sup>st</sup> Semester  Grades: 9-12 Credits: 1/2 <i>(May be used as a Speech credit.)</i>	<b>Ag Science</b> <b>Horner</b> Teacher
<b>Advanced Animal Science</b> Grades: 12 Credits: 1 <i>(May be used as your 4<sup>th</sup> science credit if taken your senior year.)</i>	<b>Range Ecology and Management</b> 2nd Semester  Grades: 10-12 Credits: 1/2	<b>Principles of Agriculture, Food, and Natural Resources</b> Grades: 9-12 Credits: 1
<b>Wildlife, Fisheries, and Ecology Management</b> Grades: 10-12 Credits: 1		<b>Horticulture Science</b> Grades: 10-12 Credits: 1
<b>Livestock Production</b> 1 <sup>st</sup> Semester  Grades: 10-12 Credits: 1/2		<b>Principles and Elements of Floral Design</b> Grades: 11-12 Credits: 1 <i>(May be used as a Fine Art credit.)</i>
<b>Equine Science</b> 2 <sup>nd</sup> Semester  Grades: 10-12 Credits: 1/2		<b>Landscape Design and Turf Grass Management</b>  Grades: 11-12 Credits: 1
<b>Practicum Ag Animal Science</b> Grades: 11-12 Credits: 2		<b>Practicum Ag Horticulture</b> Grades: 11-12 Credits: 2

# Manufacturing (Hardy)



<b>Manufacturing</b>
<b>Hardy</b> Teacher
<b>Agricultural Mechanics and Metal Technologies</b> Grades: 9-12 Credits: 1
<b>Welding</b> Grades: 10-12 Credits: 2
<b>Advanced Welding</b> Grades: 11-12 Credits: 2
<b>Practicum Ag Mechanics</b> Grades: 11-12 Credits: 2 (3 credits, as needed under special circumstances)

**Business (Carlson & Clark)  
Finance (Carlson & Clark)**



<b>Carlson Teacher</b>	<b>Carlson continued</b>	<b>Clark Teacher</b>	<b>Clark continued</b>
<b>Principles of Business Marketing, and Finance</b>  Grades: 9-12 Credits: 1	<b>Career Preparation I &amp; II</b> <i>(The student must be 16 years of age and have valid work documentation and must be enrolled in the class for the entire school year.)</i>  Grades: 11-12 (Age-16) Credits: <b>3</b>	<b>Touch Systems Data Entry</b>  Grades: 9-12 Credits: 1	<b>Banking &amp; Financial Services</b> 1 <sup>st</sup> Semester  Grades: 10-12 Credits: 1/2
<b>Human Resources Management</b> 1 <sup>st</sup> Semester  Grades: 10-12 Credits: 1/2		<b>Business English</b>  Grades: 12 Credits: 1 (Prerequisites: Data Entry and English III)	<b>Insurance Operations</b> 2 <sup>nd</sup> Semester  Grades: 10-12 Credits: 1/2
<b>Money Matters</b> 2 <sup>nd</sup> Semester  Grades: 10-12 Credits: 1/2		<b>Accounting I</b>  Grades: 10-12 Credits: 1	
<b>Business Management</b>  Grades: 10-12 Credits: 1 Credits: 1/2		<b>Accounting II</b>  Grades: 11-12 Credits: 1 <i>(Prerequisite: Accounting I)</i>	

# Information Technology (Carroll, Hampton & Parker)



## Information Technology (Carroll, Hampton & Parker)

<b>Carroll</b> Teacher	<b>Hampton</b> Teacher	<b>Parker</b> Teacher
<b>Touch Systems Data Entry</b>  Grades: 9-12 Credits: 1	<b>Touch Systems Data Entry</b> Grades: 9-12 Credits: 1	<b>Business Information Management I</b> Grades: 10-12 Credits: 1
	<b>Audio/Video Production</b> Grades: 10-12 Credits: 1	<b>Business Information Management II</b> Grades: 11-12 Credits: 1
	<b>Advanced Audio/Video Production</b> Grades: 11-12 Credits: 2	<b>Graphic Design and Illustration</b> Grades: 10-12 Credits: 1
	<b>Digital and Interactive Media</b> Grades: 10-12 Credits: 1	
	<b>Web Technologies</b> Grades: 10-12 Credits: 1	

# Parenting/Design (Eady) Culinary Arts/Hospitality/Tourism (Deisher)



<b>Eady Teacher</b>	<b>Deisher Teacher</b>
<b>Principles of Human Services</b>	<b>Principles of Hospitality and Tourism</b>
Grades: 9-12 Credits: 1	Grades: 9-11 Credits: 1
<b>Child Development</b>	<b>Lifetime Nutrition and Wellness</b>
Grades: 10-12 Credits: 1	Grades: 9-11 Credits: 1
<b>Fashion Design 1<sup>st</sup> Semester</b>	<b>Culinary Arts</b>
Grades: 10-12 Credits: 1/2	Grades: 10-11 Credits: 2 <i>(Prerequisite: Lifetime Nutrition and Wellness &amp; Principles of Hospitality)</i>
<b>Interior Design 2<sup>nd</sup> Semester</b>	<b>Practicum in Culinary Arts</b>
Grades: 10-12 Credits: 1/2	Grades: 12 Credits: 2 (2 hour course)

**Building Trades (Marsden)  
Health Science (Fade)  
Criminal Justice (Lindbloom)**



Fade Teacher	Lindbloom Teacher	Marsden Teacher
<b>Principles of Health Science</b>  Grades: 9-11 Credits: 1	<b>Principles of Law, Public Safety, Corrections and Security</b>  Grades: 9-12 Credits: 1	<b>Principles of Architecture and Construction</b>  Grades: 9-11 Credits: 1
<b>Medical Terminology</b> 1 <sup>st</sup> Semester  Grades: 10-12 Credits: 1/2	<b>Law Enforcement I</b>  Grades: 10-12 Credits: 1	<b>Construction Technology</b>  Grades: 10-12 Credits: 2
<b>Pathophysiology</b> 2 <sup>nd</sup> Semester  Grades: 10-12 Credits: 1/2		<b>Advanced Construction Technology</b>  Grades: 11-12 Credits: 2
<b>Health Science</b>  Grades: 11-12 Credits: 2		<b>Practicum in Construction Management</b>  Grades: 12  Credits: 2

**Auto Tech (Griffin)  
CAD (Whittenburg)**



<p><b>Griffin</b> Teacher</p>	<p><b>Whittenburg</b> Teacher</p>
<p><b>Principles of Transportation, Distribution and Logistics</b> Grades: 9-12 Credits: 1</p>	<p><b>Engineering Design and Presentation</b> Grades: 9-12 Credits: 1</p>
<p><b>Automotive Technology</b> Grades: 10-12 Credits: 2</p>	<p><b>Advanced Engineering Design and Presentation</b> Grades: 10-12 Credits: 2</p>
<p><b>Advanced Automotive Technology</b> Grades: 11-12 Credits: 2</p>	<p><b>Architectural Design</b> Grades: 9-12 Credits: 1</p>
<p><b>Transportation Systems Management</b> Grades: 11-12 Credits: 2</p>	<p><b>Advanced Architectural Design</b> Grades: 10-12 Credits: 2</p>
	<p><b>Animation</b> Grades: 9-12 Credits: 1</p>

# **AGRICULTURAL SCIENCES**



## **Principles of Agriculture, Food, and Natural Resources (13000200) Prerequisite for All Agriculture Science Courses (13000200)**

Grade Placement: 9-12

Credits: 1

This is an introductory course to introduce students to Agricultural Science. A comprehensive course designed to introduce beginning students to global agriculture. The course includes agricultural career development, leadership, communications, and personal finance.

## **Horticulture Science (13002000)**

Grade Placement: 10-12

Credits: 1

A laboratory-oriented course designed to develop skills in the various technical areas of the horticulture industry, preparing individuals to perform horticulture related skills. The course emphasizes greenhouse and nursery crop production; landscaping; floral design; and fruit, nut, and vegetable crop production. Instruction will include information on career opportunities, leadership activities, and record keeping practices related to the horticulture industry.

## **Landscape Design and Turf Grass Management (13001900)**

Grade Placement: 11-12

Credits: 1

Students will learn to develop an understanding of landscape designing and turf grass management techniques and practices. Students can obtain a Texas Certified Nursery Professional Certification and Private Pesticide Applicator License by meeting certain certification criteria.

## **\*3 Principles and Elements of Floral Design (13001800)**

Grade Placement: 11-12

Credits: 1

*(This course will meet the fine arts credit requirement.)*

Students will learn to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Students can obtain Floral Certification at the completion of this course and meeting certification criteria.

**Livestock Production (13000300)**

Grade Placement: 10-12

Credits: 1/2

Students will learn various careers in animal science, breeds of livestock, feeding and nutrition, genetics, evaluation and selection of livestock and simple medical procedures. Animal species to be addressed in this course will include beef cattle, dairy cattle, swine, sheep, goats and poultry.

**Equine Science (13000500) (Tech Prep)**

Grade Placement: 10-12

Credits: 1/2

Students will gain knowledge and skills related to animal systems in this animal science based course. Units of study will include horses, donkeys and mules. This course will allow students to research careers in animal science including large animal and equine veterinarian.

**Wildlife, Fisheries, and Ecology Management (13001500)**

Grade Placement: 10-12

Credits: 1

Students will learn to examine the importance of wildlife and outdoor recreation with emphasis on managing wildlife and natural resource conservation. The course will lead toward hunter safety certification for students, which is now mandatory to hunt in Texas and many other states.

**Advanced Animal Science (13000700) (Tech Prep)**

Grade Placement: 12

Credits: 1

(May count as fourth measure of science)

Students must meet the 40% laboratory and fieldwork requirements identified by TEA. *Recommended Prerequisite:* A minimum of one credit from the courses listed in the Agriculture, Food, and Natural Resources cluster.

An advanced course designed to examine the interrelatedness of human and scientific dimensions of livestock production. Instruction is designed to expand one's knowledge of the principles related to animal agriculture necessary for animal production.

**\*2 Professional Communications (13009900)**

Grade Placement: 9-12

Credits: 1/2 or (1/2 credit for Speech)

(Will meet speech credit requirement.)

Professional Communications blends written, oral, and graphic communication in a career based environment. Careers in the global economy require individuals to have a proficiency in professional oral and written communication. Within this context, students will be expected to develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct Internet research.

**Range Ecology and Management (13001600)**

Grade Placement: 10-12

Credits: ½

To be prepared for careers in environmental and natural resource systems, students need to attain academic skills and knowledge, acquire technical knowledge and skills related to environmental and natural resources, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings. This course is designed to develop students' understanding of rangeland ecosystems and sustainable forage production.

**Practicum in Agriculture, Food, and Natural Resources (13002500/13002510)**

Grade Placement: 11-12

Credits: 2

1351 Practicum Ag Horticulture

1352 Practicum AG Animal Science

1353 Practicum Ag Mechanics

1354 Practicum Ag Mechanics (3 credits, as needed under special circumstances)

The practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, internships, assistantships, mentorships, or laboratories.

\*2 Speech Credit

\*3 Fine Arts Credit





## MANUFACTURING

### **\*4 Agricultural Mechanics and Metal Technologies (13002200) Prerequisite for All Welding Courses**

Grade Placement: 9-12

Credits: 1

(Certificate program on completion and can qualify for dual credit with a passing score on the Compas Test.)

Students will learn to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring plumbing, carpentry, fencing, concrete, and metal working techniques. Students can obtain several certifications at the completion of this course by meeting certain criteria.

### **\*4 Welding (13032300)**

Grade Placement: 10-12

Credits: 2

*Recommended Prerequisite:* Agricultural Mechanics and Metal Technologies

Dual credit/Certification

Instruction is designed to provide job-specific training for entry-level employment in welding careers. Instruction includes blueprint reading, cutting and welding with oxygen and gas fuels, shielded metal arc welding, gas tungsten arc and gas metal arc welding processes.

### **\*4 Advanced Welding (13032400)**

Grade Placement: 11-12

Credits: 2

*Recommended Prerequisites:* Welding

Advanced Welding builds on knowledge and skills developed in Welding. Students will develop advanced welding concepts and skills as they relate to personal and career development. This course integrates academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

*\*4 Upon successful completion of the Welding Technology programs, the student will earn a College Certificate of Completion and be able to go to work as a welder in general fabrication shops, on construction sites, shipyards etc. The program will also prepare the students to pass various welder qualification tests. Current Junior and Senior students will be recruited to enroll in dual credit classes in welding. These credits can be used as electives as Weatherford College. Additional testing may be required for dual credit students.*

# **BUSINESS MANAGEMENT AND ADMINISTRATION**



## **Principles of Business, Marketing, and Finance (13011200)**

Grade Placement: 9-12

Credits: 1

Students learn to gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles.

## **Touch Systems Data Entry (13011300) (Tech Prep)**

Grade Placement: 9-10

Credits: 1

Students learn to apply technical skills to address business applications of emerging technologies. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students will need to apply touch system data entry for production of business documents.

## **Human Resources Management (13011900) (Tech Prep)**

Grade Placement: 10-12

Credits: 1/2

*Recommended Prerequisite:* Touch Systems Data Entry

Students analyze the primary functions of human resources management, which include recruitment, selection, training, development, and compensation. Topics will incorporate social responsibility of business and industry.

## **Business Management (13012100) (Tech Prep)**

Grade Placement: 10-12

Credits: 1

*Recommended Prerequisite:* Principles of Business, Marketing and Finance

Students analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading, and controlling. Topics will incorporate social responsibility of business and industry.

**Business Information Management I (13011400) (Tech Prep)**

Grade Placement: 9-12

Credits: 1

*Recommended Prerequisite:* Touch Systems Data Entry

Students learn to apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.

**Business Information Management II (13011500).**

Grade Placement: 10-12

Credits: 1

*Recommended Prerequisites:* Touch Systems Data Entry and Business Information Management

Students learn to apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia.

**Business English (13011600)**

Grade Placement: 12

Credits: 1

*Recommended Prerequisites:* English III and Touch Systems Data Entry.

Students learn to plan, draft, and complete written compositions on a regular basis. Students edit their papers for clarity, engaging language, and the correct use of the conventions and mechanics of written English and produce final, error-free drafts for business reproduction.





**Principles of Business Marketing, and Finance (13011200)**

Grade Placement: 9-12

Credits: 1

Students learn to gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles.

**Money Matters (Recordkeeping) (13016200)**

Grade Placement: 10-12

Credits: 1/2

Students study business ethics in the workplace in order to make a successful transition to the workforce and/or postsecondary education. Information to assist in becoming informed consumers and employees is examined. Students learn personal record keeping habits to assist in life and work.

**Banking and Financial Services (13016300)**

Grade Placement: 10-12

Credits: 1/2-1

Students develop knowledge and skills in the economical, financial, technological, international, social, and ethical aspects of banking to become competent consumers, employees, and entrepreneurs. Students incorporate a broad base of knowledge that includes the operations, sales, and management of banking institutions to gain a complete understanding of how banks function within society.

**Accounting I (13016600) (Tech Prep)**

Grade Placement: 10-12

Credits: 1

The students learn the "language of business" and how to keep financial records. They are given the opportunity to improve problem-solving abilities, evaluate work, interpret data, and communicate effectively. The course is especially worthwhile for anyone thinking about majoring in business in college. Since many college degree plans require one or more courses in accounting, taking accounting in high school gives the student a distinct advantage.

**Accounting II (13016700)**

Grade Placement: 11-12

Credits: 1

*Recommended Prerequisite: Accounting I*

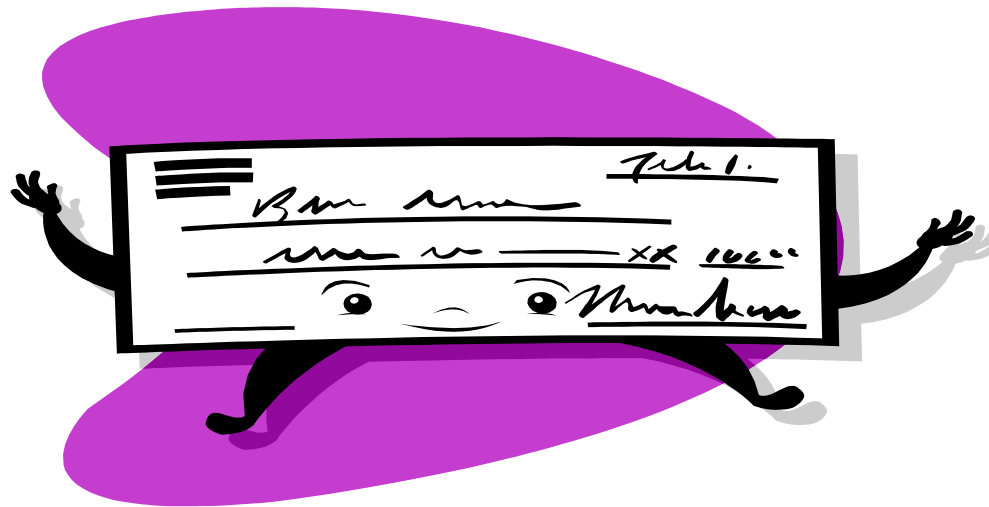
The advanced accounting course prepares the student for accounting careers using today's technology. Topics covered in first year accounting are expanded upon and corporate accounting is introduced.

**Insurance Operations (1306500)**

Grade Placement: 10-12

Credits: 1/2

Students will describe and abide by laws and regulations in order to manage business operations and transactions in the insurance industry. Students will use career planning concepts, tools, and strategies to explore, obtain, and develop a career in insurance. Students will employ underwriting techniques and strategies to gather, access, and evaluate the risk posed by potential insurance clients. Students will determine client needs and wants and respond through planned, personalized communication to influence purchase decisions and enhance future insurance business opportunities.



# INFORMATION TECHNOLOGY



## Digital and Interactive Multimedia (13027800) (Tech Prep)

Grade Placement: 10-12

Credits: 1

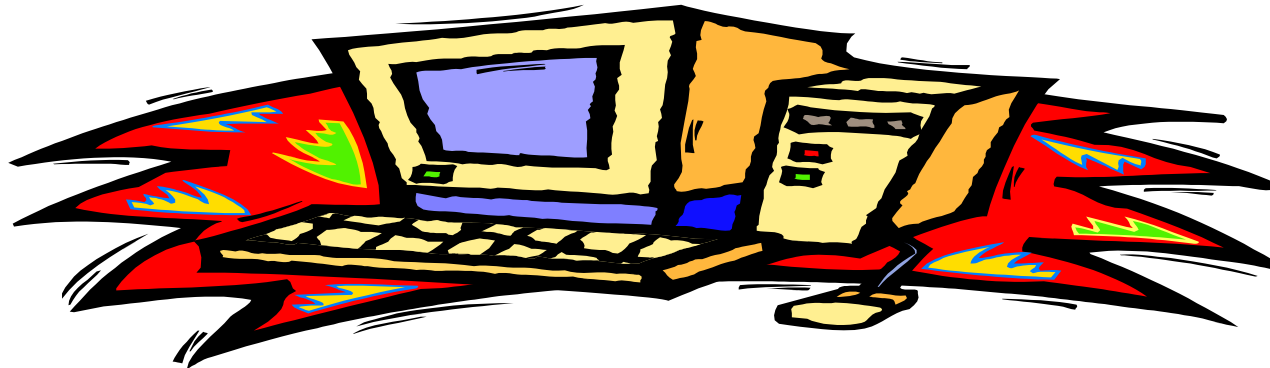
Students will learn to use a variety of programs while taking this course. This is a good introductory course to many different topics including digital graphics (learning Adobe Photoshop and Illustrator), making videos (learning Moviemaker and Adobe Premiere), desktop publishing (learning Microsoft Publisher), editing audio (learning Audacity and Adobe Soundbooth), and creating animations (learning Adobe Flash). You will walk away from this course with a good understanding of many types of programs and techniques. You will also learn leadership skills, safety, and ethical decision making, working in groups, and planning.

## Web Technologies (13027900) (Tech Prep)

Grade Placement: 10-12

Credits: 1

Students will learn how to create websites using HTML and also WYSIWYG editors (web software). You will learn the design principles that make websites stand out above the rest. You will also learn some photo manipulation using Adobe Photoshop. The second semester will concentrate on learning Adobe Flash in the creation of animated and interactive websites and the steps to upload a website to the Internet. You will also learn safety, ethical decision making, working in groups, and planning



# HUMAN SERVICES



## **Principles of Human Services (13024200) Prerequisite for All Human Services Courses**

Grade Placement: 9-12

Credits: 1

This laboratory course is designed to address a broad range of knowledge and skills related to Interpersonal Studies, Counseling and Mental Health, Child Development, Lifetime Nutrition and Wellness, Dollars and Sense, Interior Design, Architecture and Construction, Fashion Design, Arts, A/V Technology and Communications.

## **Child Development (13024700) (Tech Prep)**

Grade Placement: 10-12

Credits: 1

*Recommended Prerequisite:* Principles of Human Services

This course stresses good parenting skills. Instruction relates to prenatal and postnatal care, development of children, and child guidance techniques. This course provides an in-depth study on all aspects of knowledge and skills relating to child development and care.



# **HOSPITALITY AND TOURISM**



## **Principles of Hospitality and Tourism (13022200)**

*Prerequisite for All Hospitality and Tourism Courses*

Grade Placement: 9-11

Credits: 1

The hospitality and tourism industry encompasses lodging; travel and tourism; recreation, amusements, attractions, and resorts; and restaurants and food beverage service. The hospitality and tourism industry maintains the largest national employment base in the private sector. Students use knowledge and skills that meet industry standards to function effectively in various positions within this multifaceted industry.

## **Lifetime Nutrition and Wellness (13024500) (Tech Prep)**

Grade Placement: 9-11

Credits: 1

*Recommended Prerequisite: Principles of Human Services, Principles of Hospitality and Tourism or Principles of Health Science*

This laboratory course allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences.

## **Culinary Arts I (13022600)**

Grade Placement: 10-11

Credits: 2

*Recommended Prerequisite: Lifetime Nutrition and Wellness & Principles of Hospitality and Tourism*

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification, a Texas culinary specialist certification, or any other appropriate industry certification. This course may be offered as a laboratory-based or internship course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

## **Practicum in Culinary Arts (13022900)**

Grade Placement: 12

Credits: 2 (2 hour course)

*Recommended Prerequisite: Culinary Arts I*

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification, a Texas culinary specialist certification, or any other appropriate industry certification. This course may be offered as a laboratory-based or internship course. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

# ARTS, A/V TECHNOLOGY, AND COMMUNICATIONS



## **Animation (13008300).**

Grade Placement: 9-12

Credits: 1

*(This class is available through an online program offered by Weatherford College.)*

Careers in animation span all aspects of motion graphics. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the history and techniques of the animation industry.

## **Graphic Design and Illustration (13008800)**

Grade Placement: 10-12

Credits: 1

Students will use current industry-standard software including page-layout software, photo editing software, illustration (vector-based) software, and motion graphics (multimedia) software. Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

## **Audio/Video Production (13008500)**

Grades Placement: 9-12

Credits: 1

Students will learn to make short films that someone other than the family would enjoy. You will learn camera composition techniques and how to use video editing software. Students will also learn how to use audio software to help improve the videos. You will also learn leadership skills, safety, and ethical decision making, working in groups, and planning.

## **Advanced Audio/Video Production (13008600)**

Grade Placement: 10-12

Credits: 2

*Recommended Prerequisite: Audio/Video Production*

Students will learn advanced techniques in the making of short films. You will learn advanced camera composition techniques as well as advanced audio techniques to help improve the videos. You will also learn leadership skills, safety, and ethical decision making, working in groups, and planning.

**Fashion Design (13009300)**

Grade Placement: 10-12

Credits: 1/2

Students will be expected to develop an understanding of fashion and the textile and apparel industries. Careers in fashion span all aspects of the textile and apparel industries.



**SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS**

**Engineering Design and Presentation**

Grade Placement: 9-12

Credits: 1

Students enrolled in this course will demonstrate knowledge and skills of the process of design as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students will transfer advanced academic skills to component designs. Additionally, students explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas.

**Advanced Engineering Design and Presentation**

Grade Placement: 10-12

Credits: 2

This course will provide students the opportunity to master computer software applications in a variety of engineering and technical fields. This course further develops the process of engineering thought and application of the design process.

# ARCHITECTURE AND CONSTRUCTION



## **Principles of Architecture and Construction (13004200) Prerequisite for All Architecture and Construction Courses**

Grade Placement: 9-10

Credits: 1

This is an overview to the various fields of architecture, interior design, construction science, and construction technology and the prerequisite to all courses taken under the architecture and construction cluster. Achieving proficiency in decision-making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, educational, and career information to set and achieve realistic career and educational goals.

## **Construction Technology (13005100)**

Grade Placement: 10-12

Credits: 2

Students gain knowledge and skills specific to those needed to enter the work force as carpenters of building maintenance supervisors or prepare for a postsecondary degree in construction management, architecture, or engineering. Students acquire knowledge and skills in safety, tool usage, building material, codes and framing.

## **Advanced Construction Technology (13005200)**

Grade Placement: 11-12

Credits: 2

*Prerequisite Requirements: Construction Technology*

Students will build on the knowledge base from Construction Technology and are introduced to exterior and interior finish out skills. Students gain advanced knowledge and skills specific to those needed to enter the work force as carpenters, building maintenance technicians, or supervisors.

## **Interior Design (13004300)**

Grade Placement: 10-12

Credit: 1/2

*Recommended Prerequisites: Principles of Human Services or Principles of Art and Fashion Design*

This is a technical course that will address psychological, physiological and sociological needs of individuals by enhancing the environments in which they live and work. Individuals use knowledge and skills related to interior and exterior environments, construction and furnishings to make wise consumer decisions, increase productivity, and compete in industry.

**Architectural Design (13004600)**

Grade Placement: 9-12

Credits: 1

Students gain knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, landscape architecture. The course includes the knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for commercial or residential architectural purposes.

**Advanced Architectural Design (13004700)**

Grade Placement: 10-12

Credits: 2

Students gain advanced knowledge and skills specific to those needed to enter a career in architecture and construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, and landscape architecture. The course includes the advanced knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for commercial or residential architectural purposes.

The instruction also assists students seeking careers in the animation industry.

**Practicum In Construction Management (13006200)**

**Grade Placement: 12**

**Credits: 2**

*Recommended Prerequisites: Completion of a coherent sequence in a program area related to the field of Construction Management. Instruction may be delivered through laboratory training.*

Students gain technical instruction in a job-related study completed in the classroom setting which includes safety, career opportunities and work ethics.



# HEALTH SCIENCE



## **Principles of Health Science (13020200) Prerequisite for All Health Science Technology Courses**

Grade Placement: 9-11

Credits: 1

The Principles of Health Science provides an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry. Students wanting to pursue a career in the health science industry (Health Occupations), should learn to reason, think critically, make decisions, solve problems and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others.

## **Medical Terminology (13020300)**

Grade Placement: 10-12

Credits: 1/2

*Recommended Prerequisite: Principles of Health Science*

Medical terminology is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, combining forms, and singular and plural forms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and path.

## **Health Science (13020400)**

Grade Placement: 10-12

Credits: 1-2

*Recommended Prerequisites: Principles of Health Science and Biology.*

The Health Science course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as clinical rotation and career preparation learning.

## **Pathophysiology (13020800)**

Grade Placement: 10-12

Credits: 1/2

*Recommended prerequisites: Principles of Health Science*

In Pathophysiology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.

(2) Nature of science. Science, as defined by the National Academy of Sciences, is the "use of evidence to construct testable explanations and predictions of natural phenomena, as well as the knowledge generated through this process." This vast body of changing and increasing knowledge is described by physical, mathematical, and conceptual models. Students should know that some questions are outside the realm of science because they deal with phenomena that are not scientifically testable.

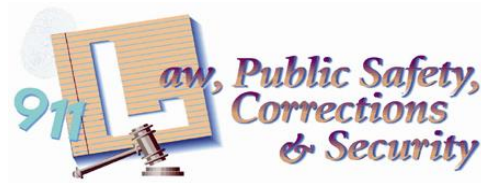
(3) Scientific inquiry. Scientific inquiry is the planned and deliberate investigation of the natural world. Scientific methods of investigation are experimental, descriptive, or comparative. The method chosen should be appropriate to the question being asked.

(4) Science and social ethics. Scientific decision making is a way of answering questions about the natural world. Students should be able to distinguish between scientific decision-making methods (scientific methods) and ethical and social decisions that involve science (the application of scientific information).

(5) Science, systems, and models. A system is a collection of cycles, structures, and processes that interact. All systems have basic properties that can be described in space, time, energy, and matter. Change and constancy occur in systems as patterns and can be observed, measured, and modeled. These patterns help to make predictions that can be scientifically tested. Students should analyze a system in terms of its components and how these components relate to each other, to the whole, and to the external environment.



# LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY



## **Principles of Law, Public Safety, Corrections, and Security (13029200)**

*Prerequisite for all Law, Public Safety, Corrections and Security Courses (Tech Prep)*

Grade Placement: 9-12

Credits: 1

Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, security, and corrections.

## **Law Enforcement I (13029300) (Tech Prep)**

Grade Placement: 10-12

Credits: 1

*Recommended Prerequisite: Principles of Law, Public Safety, Corrections, and Security*

Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime.

# TRANSPORTATION, DISTRIBUTION AND LOGISTICS



## **\*4 Principles of Transportation, Distribution and Logistics (13039200)**

*Recommended Prerequisite for All Transportation and Logistics Courses*

Grade Placement: 9-12

Credits: 1

Students gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the logistics of warehousing and transportation systems. Students should apply knowledge and skills in the application, design, and production of technology as it relates to the transportation, distribution, and logistics industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.

## **\*4 Automotive Technology (13039600)**

Grade Placement: 10-12

Credits: 2

Automotive services include knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. In Automotive Technology, students gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems.

## **\*4 Advanced Automotive Technology (13039700)**

Grade Placement: 11-12

Credits: 2

*Recommended prerequisite:* Automotive Technology

Automotive services include advanced knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. In Advanced Automotive Technology, students gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems.

## **Transportation Systems Management (13040200)**

Grades Placement: 11-12

Credits: 2

In Transportation Systems Management, students gain knowledge and skills in material handling and distribution and proper application, design, and production of technology as it relates to the transportation, distribution, and logistics industries. This course includes the safe operation of tractor-trailers, forklifts, and related heavy equipment. The course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings.

## Career Preparation

### Career Preparation I (12701300) II (12701400)

Grade Placement: 11-12

Credits: 3

A work-site learning course designed to provide on the job training. Classroom learning and work-site training provide career and related training in classroom and on the job-site.

#### Requirements:

The course should span the entire year, and classroom instruction must average one class period each day for every school week. A student is expected to be enrolled the entire school year; however, in accordance with local district policy, a student may enter or exit the course when extenuating circumstances require such a change.

Must be 16 years of age and must hold valid work documentation, such as a Social Security card, to enroll in any career preparation learning experiences.

Students unemployed for more than 15 school days are not eligible for contact hours.

Career preparation courses cannot be offered for in an alternative setting, such as credit recovery, alternative programs, or disciplinary alternative programs.

## **ADDITIONAL COURSE OFFERINGS**

### **Cosmetology I (13025200) II 13025300**

Grade Placement: 12

Credits: 3

*This is a dual credit course with Weatherford College taught on the college campus in Mineral Wells, TX.*

Students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Instruction includes sterilization and sanitation procedures, hair care, nail care and skin care and meet the Texas Department of Licensing and Regulation requirements for licensure upon passing the state examination. Analysis of career opportunities, requirements, expectations, and development of workplace skills are included.

# CTE Clubs and Organizations

		
<p><b>FFA</b></p>		<p><b>Family Career and Community Leaders of America</b></p>
	<p><b>Transportation CAD Building Trades</b></p>	
<p><b>Future Business Leaders of America</b></p>		<p><b>Health Occupations Student of America</b></p>