

AMARILLO HIGH SCHOOL CAREER AND TECHNOLOGY COURSE DESCRIPTIONS



Theresa Miller, Learning Leader

Career & Technology

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Room 103

326-2110

ARCHITECTURE AND CONSTRUCTION

1. Principles of Architecture and Construction

- Basic Design Techniques—Form and Space
- Hand drawing & drafting
- Hands on model making
- Residential & small commercial design projects

2. Architectural Design I

- Prerequisite—Principles of Architecture
- Hand drawing & drafting
- Hands on model making
- Learn to use AutoCAD 2D + Adobe Illustrator
- Small & large scale commercial design projects

3. Architecture Design II

- Prerequisite: Architecture Design I
- Advanced project design
- Structural systems, building code & sustainability
- Large scale commercial projects
- Design in 3D using Revit architectural design software

BUSINESS MANAGEMENT AND ADMINISTRATION

1. Principles of Business, Marketing & Finance

- Business Ownership
- International Business
- Study famous entrepreneurs
- Analyze commercials; marketing techniques
- Money management, budgeting, personal banking, income tax returns
- Project based learning, hands-on experiences, guest speakers and a field trip (Tour of Businesses)

2. Principles of Information Technology

- **KEYBOARDING SKILLS HELPFUL**
- **Advanced Word Processing formats used by the high school and college English Departments of papers (APA & MLA Formats)**
- **Learn formatting for professional letters & resumes**
- **Improve computer literacy skills**
- **Use Desktop Publishing with text graphics (create business cards, newsletters & brochures)**
- **Learn spreadsheet technology**
- **Create presentations (learn to make handouts and speaker notes)**

3. Accounting I

- **Investigate the field of Accounting**
- **Learn the process of recording, classifying, summarizing and analyzing accounting information**
- **Formulate and interpret financial information for use in management decision making**

4. Business Management

- **Leadership Skills**
- **Book Study: 7 Habits of Highly Effective Teens**
- **How to plan and organize**
- **How to motivate people**
- **How to work with a team using team-building skills and how to recruit and train new employees**
- **Project based learning, hands-on experiences, guest speakers and a field trip (Tour of Businesses)**

EDUCATION AND TRAINING

1. Principles of Education & Training

- **Students study learning styles and theories of learning.**
- **Students investigate possible careers in education and training.**
- **Students learn from experts in the field of education and training who come to class as guest speakers.**

2. Child Development

- Students will be responsible for taking care of “Real Care Baby 3”
- Students will learn social, emotional, physical, and intellectual development of children birth through school-age
- Students will complete a parenting project
- Students will make children’s books for a service project
- Students will learn about labor and delivery

3. Human Growth and Development

- Students will learn the importance of prenatal care.
- Students will learn about the development of children (newborn-age 10)
- Students will learn about the development of adolescents (ages 11-19)

4. Instructional Practices in Education and Training (Grades 11-12)

- Two class periods per day
- Identify qualities of effective schools and effective teachers
- Create learning materials and teach lessons to Pre-K students
- Go to Ridgecrest Elementary to work with Pre-K students under the supervision of AHS teacher and Pre-K teachers.

5. Practicum in Education and Training (Grade 12)

- Prerequisite: Instructional Practices in Education and Training
- Two classes per day
- Develop effective teaching practices and classroom management techniques
- Create and teach lessons to individuals and small groups
- Internship in an AISD Elementary school for three days a week to teach elementary students under the supervision of AISD teacher.

HOSPITALITY AND TOURISM

1. Principles of Hospitality & Tourism

- Students study the four categories of hospitality (food & beverage, lodging, recreation, travel and tourism).
- Students investigate possible careers in hospitality.
- Students learn from hospitality industry experts who come to class as guest speakers.

2. Culinary Arts (Grades 10-12)

- Two classes per day
- Learn basics of safety & sanitation in commercial kitchen—Opportunity to receive ServSafe-Texas Food Handler Certification
- Prepare foods for class and school/community events
- Banquet Services
- Understanding recipes—structure and uses

3. Practicum in Culinary Arts (Grades 11-12)

- Prerequisite: Culinary Arts
- Two classes per day
- Combines classroom instruction with actual business and industry career experiences
- Employability skills, job interview techniques, communication skills, portfolio development
- Food production and plate presentation
- Opportunity to receive Serv-Safe-Food Manager Certification

LAW

1. Principles of Law & Public Safety

- Introduction to all parts of the criminal justice system
- Includes information on policing, courts, prisons, forensics and law
- Forensic labs and field trip to juvenile detention

2. Law I

- United States legal systems
- Arrest; crime and punishment
- Victims' rights; interview and interrogation
- Juvenile law
- Traffic stops; crime scene search
- Participate in forensic labs, field trips to the police department and jail
- Hear professionals speak from all parts of the criminal justice system.

3. Law II

- **Courtroom Procedures**
- **Conflict resolution; crisis management**
- **Domestic Violence**
- **Civil Law and Procedure**
- **Texas Alcoholic Beverage Law**
- **Crowd control; use of force**
- **Accident investigation; emergency management; explosive devices**
- **Emerging technology in law enforcement**
- **The students will participate in a mock trial and forensic labs.**
- **The students will take a field trip to the jail and possible court hearings.**
- **The students will hear professionals speak from all parts of the criminal justice system.**

4. Court Systems and Practices

- **Students will study an overview of the federal and state court systems. The course identifies the rules of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence.**
- **Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk and interrogation.**
- **All students will develop an understanding of basic Constitutional Law by studying Amendments and court cases.**
- **Labs, guest speakers and courthouse field trips.**

PHOTOGRAPHY

1. Principles of Art, AV & Communication

- **Introduction to various types of media including audio, video, and digital pictures.**
- **Students use Mac computers to gain technical skills in IPhoto, iMovie, GarageBand, PhotoBooth, and Microsoft Office for Mac., Adobe Photoshop and Illustrator**
- **Students use project based learning to focus on careers in multimedia.**
- **Students use multimedia to communicate**

2. Commercial Photography

- Do you love taking photos?
- Learn:
 - To set up shots and create quality photographs
 - To edit photos using Adobe Photoshop in a Mac computer lab
 - To use professional cameras and equipment
 - Skills to help you get paid for something you enjoy doing

3. Graphic Design

- Are you interested in creating your own Graphics, posters, and logos?
- Develop your computer skills while working in a Mac lab
- Learn the industry standard software suite from Adobe including Illustrator and Photoshop

STEM SCIENCE, TECHNOLOGY, ENGINEERING, & MATH

1. Principles of Applied Engineering

- Required class for all engineering classes
- Basic concepts of engineering design and computer aided design
- Study civil, electrical, mechanical, industrial, and other engineering fields

2. Engineer Design & Presentation

- Prerequisite: Principles of Applied Engineering
- Both 2D & 3D Cad Design
- More advanced engineering design and concepts

3. Engineering Design and Problem Solving

- Prerequisite: Engineering Design & Presentation
- Advanced Project Design
- Use of manufacturing machines, 3d printers and computer controlled machines to manufacture prototypes of projects students designed.
- Integration of design and manufacturing

4. AP Computer Science Principles

- Prerequisite: Algebra I
- Do you enjoy puzzles, creating solutions to problems, and mathematics?
- Learn the ideas and concepts behind creating your own apps
- Learn the big ideas behind one of the most in demand fields of study
- Learn the Java and Python programming languages
- Create digital products using these languages

COURSES FOR ALL PROGRAMS OF STUDY

Entrepreneurship

- Types of business ownership
- How to start a business
- Virtual business simulation

Career Prep. I & II

- Paid job experience at an approved business
- Must work minimum of 15 hours per week
- Class work involves skills for success on the job
- For more information contact: Becky Clark

PRO Internship

(Listed on course selection sheet as Problems and Solutions)

- Opportunity to participate in an unpaid internship; 4-6 hours/week, at a community business in career field of student's choice or that completes selected field of study.
- Students attend class for two periods on Monday and Friday and at their internship on Tuesday, Wednesday and Thursday for two class periods.
- Benefits: Employability skills, job interview techniques, communication and human relations skills, as well as seeing a possible future career on a day-to-day basis
- Students must have their own transportation and an application for the program is required.

Professional Communications (1/2 Credit—ONE SEMESTER)

- Study of written, oral, and nonverbal communication in a career-based environment
- Students develop and expand the ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct internet research.

Dollars & Sense (1/2 Credit—ONE SEMESTER)

- Dave Ramsey's Financial Peace
- Focus on consumer practices and responsibilities
- Money management/investments

Social Media Marketing (1/2 Credit—ONE SEMESTER)

- Studies how marketers are integrating social media tools in marketing strategy
- Investigates how marketing community measures success in new world of social media
- Studies various social media platforms and purposes
- Studies trends in development of social media
- Applies legal boundaries and concepts affecting social media
- Ethical guidelines and risk factors of social media

Touch System Data Entry (1/2 Credit—ONE SEMESTER)

- Keyboarding Skills
- Word Processing (Formatting of documents)
- Publisher
- Excel

Lifetime Nutrition and Wellness (1/2 Credit—ONE SEMESTER)

- Learn about nutritionally balanced diets and how they affect your health
- Analyze the role of nutrients in the body
- Investigate careers in nutrition