



Agriculture, Food and Natural Resources

Principles of Agriculture, Food, and Natural Resources

- **Grade:** 9-12
- **Credit:** 1
- **Prerequisite(s):** None

Course Description: To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce experience, apply, and transfer their knowledge and skills in a variety of settings.



Architecture and Construction

Principles of Architecture and Construction

- **Grade:** 9-12
- **Credit:** 1
- **Prerequisite:** 8th grade Math TAKS

Course Description: Principles of Architecture and Construction provides an overview to the various fields of architecture, interior design, construction science, and construction technology. 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. Job-specific, skilled training can be provided through the use of training modules to identify career goals in trade and industry areas. Safety and career opportunities are included, in addition to work ethics and job-related study in the classroom such as communications; problem solving and critical thinking; Information Technology Applications; systems; safety, health, and environmental; leadership and teamwork; ethics and legal responsibilities; employability and career development; technical skills; introduction to hand tools; introduction to power tools; basic rigging; and reading technical drawings.



Business Management and Administration

Principles of Business, Marketing, and Finance

- **Grade:** 9-12
- **Credit:** 1

Course Description: In Principles of Business, Marketing, and Finance, students 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. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance.

TECHNOLOGY APPLICATIONS:

Business Information Management I

- **Grade:** 9-12
- **Credit:** 1
- **Prerequisite(s):** Touch Systems Data Entry or passage of a Keyboarding Proficiency Test
- **College Credit Opportunity:** yes
- **Licensure or Certification Opportunity:** yes

Course Description: Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students 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.

Touch System Data Entry

- **Grade:** 9-12
- **Credit:** 1

Course Description: Students 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.

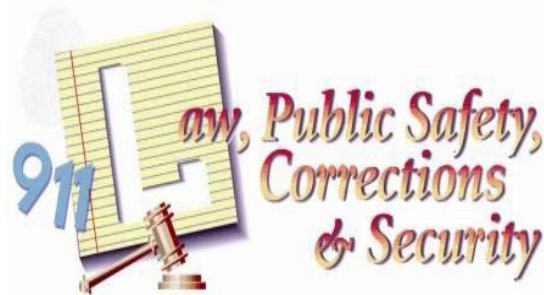


Human Services

Principles of Human Services

- **Grade:** 9-12
- **Credit:** 1

Course Description: This laboratory course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.



Law, Public Safety, Corrections and Security Government and Public Administration

Principles of Law, Public Safety, Corrections, and Security

- **Grade:** 9-12
- **Credit:** 1

Course Description: Principles of Law, Public Safety, Corrections, and Security introduces students to professions in law enforcement, security, corrections, and fire and emergency management services. 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.



Science, Technology, Engineering and Mathematics (STEM)

Introduction to Engineering Design (PLTW: “Project Lead the Way”, pre-engineering)

- **Grade:** 9-12
- **Credit:** 1
- **College Credit Opportunity:** yes

Course Description: This course utilizes problem-solving skills using a design development process. Models of product solutions are created, analyzed, and communicated using solid modeling computer design software.

Principles of Engineering (PLTW)

- **Grade:** 9-12
- **Credit:** 1
- **Prerequisite(s):** Algebra I, Geometry or concurrently enrolled
- **College Credit Opportunity:** yes
- **Licensure or Certification Opportunity:** yes

Course Description: This course emphasizes the field of engineering and engineering technology exploration of various technology systems and manufacturing processes. This course analyzes how engineers and technicians use math, science, and technology in an engineering problem solving process to benefit people and social and political consequences of technological change.

Note: At the time of this publication, some information may not be available from TEA. However, TEA has instructed districts to proceed with publication and scheduling with currently available information. Therefore, this document will be revised and updated as new information becomes available.

It is the policy of Tyler Independent School District not to discriminate on the basis of race, color, national origin, sex, or handicap in its vocational programs, services or activities as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.

La póliza del distrito escolar independiente de Tyler no discrimina por razones de raza, color, sexo, origen nacional o impedimento en programas vocacionales, servicios o actividades según como lo requiere Título VI del Acto de Derechos Civiles del 1964, enmendado; Título IX de Enmendado Educativo del 1972; y sección 504 del Acto de Rehabilitación del 1973, enmendado.

Tyler ISD's Career and Technical Education mission is to provide rigorous and relevant technical education to prepare students for high skill, high wage careers.