



# Career and Technology Education

## Handbook

# CAREER AND TECHNOLOGY EDUCATION

## **PRINCETON ISD POSITION STATEMENT**

In accordance with *Texas Education Code Sec 29.181*, Princeton ISD will provide a career and technology education program that provides each public school student the basic skills and knowledge necessary for:

1. Managing the dual roles of family member and wage earner; and
2. Gaining entry-level employment in a high-skill, high-wage job or continuing the student's education at the postsecondary level.

Princeton ISD's Career and Technology program is based on the premise that a rigorous academic foundation contributes to success in school and in life, that all students should be provided equal opportunities to succeed, and that career and technology education should complement and enhance academic preparation by enabling students to apply academic principles and technology skills to a variety of community and career situations.

The following elements contribute to effective career and technology education programs: academic excellence, quality guidance and counseling, partnerships that benefit students and schools, strong curriculum, professional development for educators, and ongoing evaluation.

## **Elements of an Effective Program**

In accordance with *The Texas State Plan for Career and Technology* Princeton ISD embraces that the following each state-recognized program of study includes:

1. Rigorous secondary academic courses based on the Foundation High School Program with an Endorsement or the Distinguished Achievement Program;
2. Postsecondary education programs leading to associate, baccalaureate, and/or graduate degrees;
3. A relevant, coherent sequence of CTE courses with college credit opportunities, including dual credit, statewide and locally articulated credit, advanced placement (AP) and/or international baccalaureate (IB) credit;
4. Opportunities for industry-recognized certifications and licensures, where appropriate and available; and
5. Extended learning – including curricular and extracurricular activities, work-based and service learning, and professional associations.

## **Selection of CATE Offerings**

When selecting CATE offerings, Princeton ISD will consider:

1. Student interest
2. Employment forecast
3. Certifications available
4. Additional Post Secondary training opportunities

## **Guidelines for Career and Technology Program**

Princeton ISD Career and Technology Programs shall prepare students for an entry level position by providing opportunities for students to:

1. Create Real World Products
2. Participate in Internships / Externships
3. Receive industry recognized certifications

## **Program Organization**

Princeton ISD offers a wide range of career and technology programs that provide students a coherent sequence of courses integrating career and technology education.

Students in 8<sup>th</sup> grade choose a graduation pathway from one of the 5 Endorsement Areas listed below, by meeting individually with a guidance counselor. Currently all district Counselors and Administrators serve as guidance counselors.

- STEM (Science, Technology, Engineering, and Math)
- Business and Industry
- Public Service
- Arts and Humanities
- Multidisciplinary Studies

There are CATE Graduation Pathways in 3 of the five Endorsement Areas. The following information outlines the recommended Sequence of Courses, Real World Product Created, Internships Available, and Certifications Available for each of the CATE Graduation Pathways.

**Note: Sequence of courses is recommended; actual requirements may vary, but would never be greater than the recommendation. Students should consult their guidance counselor for an individualized Foundation High School Program with Endorsement.**

## STEM (Science, Technology, Engineering, and Math)

<b>Computer Programming</b>	
<b><u>Sequence of Courses</u></b> <ul style="list-style-type: none"><li>• Principals of Info. Technology (1 Credit)</li><li>• BIM (1 Credit)</li><li>• Computer Programming (1 Credit)</li><li>• Advanced Computer Programming (1 Credit)</li></ul>	<b><u>Real World Product</u></b> Hardware/Software installations Hardware/Software installations  <b><u>Internships Available</u></b> NA  <b><u>Certifications Available</u></b> Adobe Microsoft Office Specialist

<b>Computer Technician</b>	
<b><u>Sequence of Courses</u></b> <ul style="list-style-type: none"><li>• Computer Maintenance (2 Credits)</li><li>• Advanced Computer Maintenance (2 Credits)</li></ul>	<b><u>Real World Product</u></b> Hardware/Software installations  <b><u>Internships Available</u></b> NA  <b><u>Certifications Available</u></b> A+ Certification Network Certification

## Pharmacy Technician

### Sequence of Courses

- Medical Terminology (½ Credit)
- Principles of Health Science (½ Credit)
- Health Science (1 Credit)
- Pharmacy Tech (2 Credits)

### Real World Product

NA

### Internships Available

CVS, Walgreens, and various local Pharmacies in Princeton and Farmersville

### Certifications Available

Pharmacy Tech  
IV Certification

## Engineering

### Sequence of Courses

- Engineering Math (1 Credit)
- Engineering Scientific Research & Design (1 Credit)
- Engineering Problem Solving & Design (1 Credit)

### Real World Product

NA

### Internships Available

NA

### Certifications Available

NA

## Public Service

<b>Certified Nursing Assistant</b>	
<b><u>Sequence of Courses</u></b> <ul style="list-style-type: none"><li>• Medical Terminology (½ credit)</li><li>• Principles of Health Science (½ credit)</li><li>• Health Science (1 Credit)</li><li>• Practicum in Health Science (2 Credits)</li></ul>	<b><u>Real World Product</u></b> Simulation Lab in Classroom  <b><u>Internships Available</u></b> Hinton Nursing Home-Farmersville  <b><u>Certifications Available</u></b> Registered Nurse Aide (State of Texas)

<b>Cosmetology</b>	
<b><u>Sequence of Courses</u></b> <ul style="list-style-type: none"><li>• Cosmetology I (3 Credits)</li><li>• Cosmetology II (3 Credits)</li></ul>	<b><u>Real World Product</u></b> Perform Salon services (manicures, pedicures, facials, hair coloring, and styling) for community during class, evenings and weekends  <b><u>Internships Available</u></b> NA  <b><u>Certifications Available</u></b> Cosmetology Operator (State of Texas)

## Business and Industry

<b>Ag, Food, and Natural Resources</b>	
<b><u>Sequence of Courses</u></b> <ul style="list-style-type: none"><li>• Principles of Ag (1 Credit)</li><li>• Small Animal / Wildlife Management (1 Credit)</li><li>• Advanced Plant and Soil Management (1 Credit)</li><li>• Ag. Math (1 Credit)</li><li>• Advanced Animal Management (1 Credit)</li></ul>	<b><u>Real World Product</u></b> Plants and Flowers for sale  <b><u>Internships Available</u></b> NA  <b><u>Certifications Available</u></b> NA

<b>Audio Video Production</b>	
<b><u>Sequence of Courses</u></b> <ul style="list-style-type: none"><li>• Audio Video Production (2 Credits)</li><li>• Advanced Audio Video Production (2 Credits)</li></ul>	<b><u>Real World Product</u></b> Create and develop videos for clients  <b><u>Internships Available</u></b> Allen Events Center Various media outlets  <b><u>Certifications Available</u></b> NA

## Auto Technician

### Sequence of Courses

- Auto Technician (2 Credits)
- Advanced Auto Technician (2 Credits)

### Real World Product

Perform various repairs on community or school district vehicles

### Internships Available

NA

### Certifications Available

ASE certifications in Brakes, Electrical, Suspension and Steering, Engine Repair

## Construction Trades

### Sequence of Courses

- Construction Management (2 Credits)
- Advanced Construction Management (2 Credits)

### Real World Product

Construct house for sale, and various smaller projects

### Internships Available

Work with various subcontractors

### Certifications Available

NCCER



## Culinary Arts

### Sequence of Courses

- Culinary Arts (2 Credits)
- Practicum in Culinary Arts (2 Credits)

### Real World Product

Prepare and serve lunch on Fridays through Café Fresh. Also cater various district events.

### Internships Available

NA

### Certifications Available

NA

## Heating, Ventilation, and Air Conditioning

### Sequence of Courses

- HVAC (2 Credits)
- Advanced HVAC (2 Credits)

### Real World Product

Evaluation of HVAC units. Repair and diagnostic test for District HVAC units. Also diagnose and repair for community service projects.

### Internships Available

Working relationship with various outside industries for student placement.

### Certifications Available

ICE, OSHA safety certification, EPS 608 refrigerant, State HVAC certification

<b>Welding</b>	
<p><b><u>Sequence of Courses</u></b></p> <ul style="list-style-type: none"> <li>• Welding (2 Credits)</li> <li>• Advanced Welding (2 Credits)</li> </ul>	<p><b><u>Real World Product</u></b> Produce trailers, fire pits, and various other metal products for sale to the public.</p> <p><b><u>Internships Available</u></b> Watson and Chalin Delivery Suspension Solutions</p> <p><b><u>Certifications Available</u></b> AWS (American Welding Society) SENSE Certification</p>

**Staff Development**

Princeton ISD will ensure that teachers receive staff development on strategies to motivate and remediate student performance.

**Parent and Community Involvement**

Princeton ISD embraces the concept that the education of students is a partnership with parents and community. Parents will have access to information related to program objectives and activities that support student success in the above areas.

Parents and Community members are invited to be part of Princeton ISD Site-Based Decision Making Process. District/Campus Improvement plans will address the needs of Career and Technology students.

### **Additional Information**

For further information on this or any program offered at Princeton ISD, please contact the following personnel at:

Greg Tabor, (469) 952-5400  
CATE Director

James Lovelady (469) 952-5400  
High School Principal

Jackie Hendricks, (469) 952-5400  
Deputy Superintendent Curriculum

Donald McIntyre (469) 952-5400  
Assistant Superintendent of Secondary Curriculum