



Career and Tech Center

Course Catalog

2018-2019

Bell Schedule

AM 2 period block	7:30 – 9:15
AM 3 period block	7:20 – 10:25
Mid-Day 2 period block (3rd – 4th) (Princeton HS Only)	9:35 – 11:20
Mid-Day 2 period block (4th – 5th) (Princeton HS Only)	10:30 – 12:20
PM 2 period block	1:15 – 3:00
PM 3 period block	11:55 – 3:00

AUTO TECHNOLOGY

Upon completion of the program and mastery of state certification exams, students will receive their A.S.E. certification in Braking Systems, Electrical/Electronic Systems, Suspension & Steering, and Engine Performance.

Course Fee of \$150 per year includes: Uniforms and A.S.E. exam fees.

Automotive Technology

Grade: 11 (Credits: 2)

In Automotive Technology, students gain knowledge and skills in the repair, maintenance, and diagnosis of motor vehicles. Students will work in a state of the art simulation lab as well as on actual vehicles. The National Automotive Technician Education Foundation (NATEF) standards are the basis for the course curriculum. The primary goal of this course is to prepare students to successfully take the A.S.E. (Automotive Service Excellence) certification exams for the A5 Braking Systems and A6 Automotive Electrical/Electronic Systems. Students will also learn the safety procedures, uses, and care of major shop equipment and tools. Students will explore career and post secondary opportunities as they relate to the automotive repair industry.

Advanced Automotive Technology

Grade: 12 (Credits: 2)

In Advanced Automotive Technology, students gain knowledge and skills in the repair, maintenance, and diagnosis of motor vehicles. Students will work in a state of the art simulation lab as well as on actual vehicles. The National Automotive Technician Education Foundation (NATEF) standards are the basis for the course curriculum. The primary goal of this course is to prepare students to successfully take the A.S.E. (Automotive Service Excellence) certification exams for the A4 Suspension and Steering and A8 Engine Performance. Students will also learn the safety procedures, uses, and care of major shop equipment and tools. Students will explore career and post secondary opportunities as they relate to the automotive repair industry.

Prerequisite: Automotive Technology

Cosmetology

Upon completion of the program and mastery of state certification exam, students will receive their Cosmetology Licensure.

Course Fee of \$350 per year includes: Cosmetology kit, uniforms, state permit, and state exam fees

Cosmetology I

Grade: 11 (Credits 3)

In Cosmetology I, students gain knowledge and skills in the principles and practices of the treatment of the hair, skin, and nails in accordance with the Texas Department of Licenses and Regulations. Students will develop the skills required to be competitive in the field of Cosmetology including cutting, coloring, texture services, waxing, and styling. In addition, students will also develop highly needed skills for success, including; appropriate work habits, safety and sanitation procedures, customer service, and communication with workers as well as clientele. Students are expected to complete 500 hrs during the school year, so good attendance is essential. Students will also explore career and post secondary opportunities as they relate to cosmetology.

Cosmetology II

Grade: 12 (Credits 3)

In Cosmetology II, students continue to refine the skills introduced in Cosmetology I as they transition from working on manikins to actual people. After completion of the 1000 hours of laboratory work (500 each year), students are eligible for the licensure examination. Cosmetology is regulated by the State of Texas, and students must successfully pass a written and practical exam in order to receive their Cosmetology License. Students will also explore career and post secondary opportunities as they relate to cosmetology.

This course requires extended attendance on designated evenings.

Prerequisite: Cosmetology I

Health Science

Upon completion of a Practicum in Health Science and mastery of state certification exam, students will receive either Nursing Assistant or Pharmacy Technician Certification.

Introduction to Health Science, Medical Terminology, and Health Science are recommended Jr. Level courses prior to a Health Science Practicum. These courses are offered at the Princeton CATE center for PISD students only. Other member districts may offer on their home campus.

Course Fee of \$100.00 includes: 2 sets of scrubs, CPR Training

Introduction to Health Science

Grade 11 (Credits: ½)

In introduction to Health Sciences, students are provided an overview of career exploration through systems of the health care industry, with a focus on leadership development, medical terminology, medical math, ethical and legal issues, nutrition and concepts of past and current medical trends in the health care field.

Medical Terminology

Grade 11 (Credits: ½)

In Medical Terminology, students will study of the basic structure of medical words. Included are prefixes, suffixes, roots, combining forms and plurals. Emphasis will be placed on pronunciation, spelling, and definition. A basic understanding of human anatomy and physiology and the terms relating to these and their medical applications will be emphasized.

Health Science

Grade 11 (Credits: 1)

In Health Science, students will explore the health care industry and the requirements for careers in health care. Students will obtain health care specific knowledge and skills that are essential in today's health care settings. The course focuses on general information and important topics concerning: history of health care, health care facilities, careers in health care, ethical and legal responsibilities of the health care worker, human needs, cultural diversity, and understanding the principles of infection control. This course will help prepare those for the transition to clinical or work based experiences in health care.

Health Science continued

Senior students may choose either the CNA, or Pharmacy Tech program as their Practicum in Health Science. It is recommended but not required that students take Introduction to Health Science, Medical Terminology, and Health Science prior to enrolling in a Health Science Practicum.

Practicum in Health Science II (CNA – Certified Nursing Assistant)

Grade 12 (Credits: 2)

Course Fee of \$325.00 includes: Stethoscope, 2 sets of scrubs, manual and state exam fees.

This course is designed to provide instruction toward a Certification with the State of Texas for Certified Nursing Assistant. CNA's provide basic bedside care, under the care of a Physician, Registered Nurse and/or Licensed Vocational Nurse. Students will be able to work in a medical facility after passing state certification. Class requirements include 76 hours of classroom instruction along with a minimum of 30 to 40 hours of clinical instruction at a Nursing Facility. Career and post-secondary options in nursing will also be explored. Students must provide their own transportation to and from their clinical rotations.

Practicum in Health Science II (Pharmacy Technician)

Grade 12 (Credits: 2)

Course Fee of \$300 includes: Lab Coat, manual and state exam fees.

*** Students may also receive IV Certification for an extra fee of \$250 optional but recommended***

The objective of the Pharmacy Technician Program is to provide students with the skills and knowledge to prepare them for the national Pharmacy Technician Certification Board exam and enable students to qualify for entry-level positions in retail and hospital pharmacies. This integrated occupational course will provide an overview of the pharmacokinetics and pharmacodynamics of prescription and nonprescription medications. Course content will emphasize drug classifications, drug action, drug administration, ethical and legal issues, and safety. Students will develop an understanding of pharmaceuticals and its impact on the health care industry. Career and post-secondary options in pharmacy will also be explored.

Heat, Air Conditioning, and Refrigeration Technician

Upon completion of the program and mastery of state certification exam, students will receive their Certification in HVAC Repair. Students can also earn Dual Credit hours from Collin College for both HVAC classes offered at the CATE Center for an additional cost.

Course Fee of \$150 per year includes: Uniforms and state exam fees.

Refrigeration Principles and Basic Electricity for HVAC are offered together as a two-period block.

Refrigeration Principles

Grade 11 (Credits: 1)

In Refrigeration Principles, students gain knowledge and skills on the refrigeration cycle, basic thermodynamics, heat transfer, temperature/pressure relationship, safety, refrigeration containment, and refrigeration components. Students will also demonstrate proper application and use of tools, test equipment, and safety procedures.

Basic Electricity for HVAC

Grade 11 (Credits: 1)

In Basic Electricity for HVAC, students gain knowledge and skills on the principles of electricity necessary for the installation and servicing of air conditioning and refrigeration equipment; including A/C and D/C circuits, and component theory and operation. Students will also demonstrate proper application and use of tools, test equipment, and safety procedures.

Residential AC and Gas & Electric Heat are offered together as a two-period block.

Residential AC

Grade 12 (Credits: 1)

In Residential AC, students gain knowledge and skills on the components, applications, and installation of mechanical air conditioning systems; including operating conditions, troubleshooting, repair, and charging of air conditioning systems. Students will also demonstrate proper application and use of tools, test equipment, and safety procedures.

Prerequisites: Refrigeration Principles and Basic Electricity

Gas & Electric Heat

Grade 12 (Credits: 1)

In Gas & Electric Heat, students gain knowledge and skills on the procedures and principles used in servicing gas fired and electric heating systems; including operating conditions, troubleshooting, repair, and safety inspections. Students will also demonstrate proper application and use of tools, test equipment, and safety procedures.

Prerequisites: Refrigeration Principles and Basic Electricity

Emergency Medical Technician

Upon completion of the program and mastery of state and national exams, and complete their clinical training are eligible to take the NREMT exam and earn their EMT-Basic certification. This is a dual credit course taught through Collin College. Students will earn 9 college credit hours upon completion of the course.

Course fee of \$325.00 this includes: uniform, medical equipment, exam fees, drug screening, and medical tracker.

EMSP 1371 Introduction to Emergency Medical Technician (3 credit hours)

- History, organization and function, legal aspects, and ethics.
- Overview of human anatomy and physiology, patient assessment, airway control, and infection control techniques.

EMSP 1501 Emergency Medical Technician (5 credit hours)

- Preparation for certification as an Emergency Medical Technician.
- Students will master the 13 clinical skills required for EMT certification.

EMSP 1160 Clinical: Emergency Medical Technician – Basic (1 credit hour)

- A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts.
- Direct supervision is provided by the clinical professional.

It is the policy of Princeton High School not to discriminate on the 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 Right Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.