

# ***Page County Technical Center***

## **PAGE COUNTY TECHNICAL CENTER PROGRAMS**

### **Class Weights:**

The PCTC offers programs for high school students and adults. For more information on PCTC programs, availability, cost, and scheduling, visit the Page County Technical Center Website!

At the Page County Technical Center we are teaching students necessary skills to be successful employees in a 21<sup>st</sup> century working world. While attending the technical center students have the opportunity to get the hands-on training of their skill/trade as well as learn the classroom instruction. Many of the classes at PCTC have a dual enrollment opportunity through Lord Fairfax Community College where students will be able to earn college and high school credit at the same time. Upon successful completion of the student's program the student will be eligible to take a business and industry recognized credential test. The goal of Page County Technical Center is to give students the needed skills for employment in today's competitive working environment by earning college credit and state certification/industry credential.

Page County Technical Center also offers Continuing Education classes that are taught in the evening. These classes are available to both the adult community and students. Depending on the number of students signed up for a particular class, students at the high school may be able to take these courses for free or reduced rate. Visit the Page County Technical Center web page and click Continuing Education for more details, course descriptions, and schedules. If you are a high school student please call the Page County Technical Center for additional information about scheduling and cost.

The courses listed in this section are part of Career and Technical Education curriculum. One component of the student's grade is a set of competencies/tasks where the student must demonstrate specific skills. In each of these courses, a student's grade is based on traditional class work as well as course competency completion.

For more information, visit our website at:

<http://eclipse.pagecounty.k12.va.us/pctc/pctchome/index.htm>

# Auto Service Technology

## Auto Service Technology I (ASE)

**Grade Levels:** 10-12

**Prerequisite:** Good Math Background, Good Attendance

Auto Service Technology I is a course designed to provide preparation into the field of Auto Mechanics. Your first year is spent learning and practicing shop safety, maintenance, and upkeep of the following automotive systems:

- Engine Repair and Performance
- Electricity and Electronics
- Engine Performance
- Heating and Air Conditioning

Upon completion, students will be equipped and encouraged to take the ASE certification tests for these areas.

## Auto Service Technology II (ASE)

**Grade Levels:** 11-12

**Prerequisite:** Auto Technology I

Auto Service Technology II is designed to proceed from where Auto Service Technology I concluded in the ASE certifications. Course of study in Auto Service Technology II includes learning and practicing diagnosis; and servicing of the following automotive systems:

- Brakes
- Steering, Suspension, and Wheel Alignment
- Automatic Transmissions and Transaxles
- Manual Transmissions and Transaxles

Upon completion, students will be equipped and encouraged to take the ASE certification tests for these areas.

### Class Weights:

Dual-enrollment carry an extra 1 point of weight to the final grade. PCTC DE courses include:

- Auto Service Technology I
- Auto Service Technology II

See page 15 for a detailed list of Honors, AP, and Dual Enrollment courses.

# Criminal Justice

## Criminal Justice I

This course allows the option of Dual Enrollment through LFCC originating at PCTC

**Grade Level:** 11-12

**Prerequisites:** None

During this fall semester course, students will comprehensively cover all areas of criminological theory, crime typologies, and criminal justice systems to effectively link criminological theory with the formulation of criminal justice policy.

Students will cover the basic concepts of criminal evidence applied to the criminal justice workplace. Included will be a description of the trial process, types of evidence, the roles relating to relevance, hearsay, documentary evidence, qualifications of witnesses, privileges relating to the impact of the Constitution of the United States on the admissibility of evidence and the principles relating to the law enforcement officer as a witness.

The course also introduces and evaluates the concepts of normal and abnormal behavior. The course focuses on the psychological and sociological aspects of criminal and other deviant behavior patterns. Students will examine the causes, classification, prediction, prevention, intervention, and treatment of criminal behavior from a social psychological perspective.

## Criminal Justice II

This course allows the option of Dual Enrollment through LFCC originating at PCTC

**Grade Level:** 11-12

**Prerequisites:** Criminal Justice I

During this spring semester course, students will survey the fundamentals of criminal investigation procedures. Students will cover crime scene search, collecting, handling and preserving evidence. Students will be introduced to specialized tools and scientific aids used in criminal investigation. Investigative techniques will be tied to specific situations and the preparations of trial evidence. Students will survey and demonstrate the various types of non-lethal force, tools and tactics used by criminal justice personnel in self-defense, arrest, search, restraint, and transport of those in custody.

Completion of this course sequence plus Introduction to Psychology will lead to a Career Study Certification specializing in Police Science from Lord Fairfax Community College.

### Class Weights:

Dual-enrollment carry an extra 1 point of weight to the final grade. PCTC DE courses include:

- Criminal Justice I
- Criminal Justice II

See page 15 for a detailed list of Honors, AP, and Dual Enrollment courses.

# Cosmetology

## **Cosmetology I**

**Grade Level:** 11

**Prerequisites:** Art, Technical Math/Algebra, Biology and Chemistry are recommended.  
Excellent attendance is required.

This course provides training in all phases of the profession, plus skill and theory preparation for the state board examination. Completion of this two year program will allow the graduates to enter the cosmetology industry competent in all basic tasks of the Cosmetology profession after licensure is issued from the State Board of Cosmetology.

During the first year, students are introduced to all the basics, but not limited to sanitation and sterilization, shampooing and rinsing, braiding, hair coloring, hair cutting, hair styling, texture services, chemical relaxing, wig services, color analysis, facials, makeup application, perform manicures, and pedicures.

Excellent attendance is a requirement for the two year program. Excessive absences do not allow the student to complete the lab competencies and hours required by the Virginia State Board of Cosmetology.

## **Cosmetology II**

**Grade Level:** 12

**Prerequisite:** Cosmetology I

In the second year, students are provided advanced study of experiences received during the first year with further emphasis on development, perfection, and speed in the various hairstyling application skills. Other areas focused upon are professional ethics, salon management, preparation for the state examination, and completion of required competencies and hours. At this level, the students are preparing for both practical and theory portions of the Board exam. A student must successfully pass the Virginia State Board of Cosmetology examination to receive a license and practice the profession. Passing grade at the State Board Exam is 75. A student must first obtain a minimum grade of "C" to be eligible to take the State Board Examination.

# Electricity

## Electricity I

**Grade Levels:** 10-11

**Prerequisites:** Technical Math or Algebra preferred and completion of 9<sup>th</sup> grade English

The Electricity I course will give students the basic understanding of the principles and theory of electricity. All competencies are set and approved by the State Department of Education. This will include both theory and hands-on practice. This course includes the following subjects:

- Core Curriculum
- Basic Technical Math
- Advanced Technical Math
- Concepts of Technology
- Industrial Electronics Survey
- Industrial Safety & First Aid
- OSHA 10 Certification

## Electricity II

**Grade Levels:** 11-12

**Prerequisites:** Technical Math or Algebra preferred; completion of 10<sup>th</sup> grade English; and completion of Electricity I

The Electricity II course gives students a broad understanding of the trade through instruction in the use of materials, tools, and techniques used in the installation, maintenance, and repair of electrical equipment and systems. All competencies are set and approved by the State Department of Education. Completion of Electricity I and II will allow a student to do on-the-job-training. The following skills are covered in Electricity II:

- Basic Motor Controls
- Blueprint Reading & Estimating
- Residential Wiring
- Human Relations Skills for Technical Occupations
- Communication Skills for Technical Occupations
- Technical Computer Literacy
- Electricity I A.C./D.C. Theory

### Class Weights:

Dual-enrollment classes carry an extra 1 point of weight to the final grade. PCTC DE courses include:

- Electricity I
- Electricity II

See page 15 for a detailed list of Honors, AP, and Dual Enrollment courses.

# Health Assistant

## Health Assistant I

**Grade Level:** 11-12

**Prerequisite:** Genuine concern for people and good school attendance

Health Assistant I is a competency-based program designed to provide students with basic health care skills such as bathing patients, moving and lifting patients, taking and recording vital signs, feeding patients, and assisting with various specific nursing-related procedures needed for entry into the field of health care. The classroom studies include body structure and function, medical terminology, and basic information on disease and disease processes. Laboratory studies include training in such procedural skills as basic first aid and cardiopulmonary resuscitation, assisting the elderly or disabled in personal care, assisting in nursing-related procedures, and promoting safety and infection control. Upon completion of this portion of the program, the student will be eligible to sit for the national certification examination as a Nursing Assistant. (CNA)

## Health Assistant II

**Grade Level:** 12

**Prerequisite:** Successful completion of Health Assistant I including academic and clinical skills.

Health Assistant II builds on the objectives completed in Health Assistant I. Mastery of clinical skills is mandatory in order to proceed in an orderly fashion into the Health Assistant II curriculum. Also, an overall course average of 76% must be obtained. Included in this course of study are the core courses of advanced anatomy and physiology, medical mathematics, basic pharmacology and fundamental chemistry. Students are guided through the necessary clinical skills and academic preparation by the instructor.

The program of study includes:

- Anatomy and Physiology of all body systems
- Medical ethics and law
- Patient rights
- Human behavior as it relates to both the client and the health care worker
- The fundamental chemistry of life
- Mathematics for the health care worker
- Role development for the health care worker
- Exposure to the academics and clinical skills required for entry-level employment in a selected health career or for entrance into post-high school education

Upon completion of this portion of the program, the student will be eligible to sit for the national nurse aide certification exam.

# Practical Nursing

## **Practical Nursing I Honors**

**Grade Levels:** 12 (semester)

**Prerequisites:** High School senior in good standing.

Nursing I focuses on the attainment of competency in basic nursing skills. Instruction includes a historical overview of nursing as well as current trends in health care. Other units of study include anatomy and physiology, nutrition, and nursing arts. As competence is achieved, students will refine technologies at a local acute care hospital. Successful completion of this course requires a grade of 80% (C) in all areas.

## **Practical Nursing II Honors**

**Grade Levels:** 12 (semester)

**Prerequisites:** Practical Nursing I

During Practical Nursing II, studies will entail pharmacology, Med-Math for Nurses and Med Surg. Nursing I. Successful completion of this course will be achieved with an 80% (C) average in the curriculum. Male and female students that complete Practical Nursing I & II will earn 3 high school credits toward graduation, and will participate in a lamp ceremony prior to beginning the second clinical year.

## **Practical Nursing III (Adults)**

**Grade Level: Post-Graduate** (36 weeks, full-time)

**Prerequisite:** Practical Nursing II

Practical Nursing III is an 18-month, State Board of Nursing approved program. Focuses are on direct patient care. The student will have supervised clinical experiences in the clinical labs.

Instruction includes:

- Psychiatry/Mental Health Nursing
- Pediatrics
- Maternal Newborn Nursing
- Medical/Surgical Nursing II
- Geriatric Nursing

Successful completion of the second year requires a grade of 80% (C) in all units of the program. Male and female students who successfully complete this program will participate in a graduation ceremony and will be qualified to take the NCLEX and upon passing the NCLEX, be recognized as Licensed Practical Nurses (LPN).