



## Davis Applied Technology College

A UCAT Campus  
550 E 300 S, Kaysville 84037  
Phone: 593-2500



## Course Descriptions - Plumbing Apprentice Catalog Year: 2012

### FUND 0050 Keyboarding Skills - 90 Hours

This course covers an introduction to the QWERTY keyboard, correct finger placement, and keyboarding techniques. Students will learn to touch type as they complete drills and timed writings. Through practicepractice, students will increase their typing speed and accuracy on a computer keyboard.

### FUND 0065 Computer Skills - 30 Hours

Students will learn beginner computer skills in a Windows XP environment. Topics include starting a computer, using a mouse, launching programs, creating, saving and printing documents, surfing the World Wide Web and sending email.

### FUND 0070 Spelling Skills - 30 Hours

Students will improve their spelling skills by learning and using phonics and common spelling rules.

### FUND 0075 Language Skills - 90 Hours

In this course students will practice and improve their language and writing skills and will gain an understanding of the English language and its correct use in written communication. Topics include sentence structure, parts of speech, grammar and punctuation rules in addition to extending these rules to sentences and paragraphs.

### FUND 0080 Reading Skills - 90 Hours

This course will provide students with a foundation in reading skills, build vocabulary, and will provide practice recalling and interpreting information.

### FUND 0085 Math Skills - 60 Hours

In this course students will learn to perform all four basic math operations accurately with whole numbers, fractions and decimals. Students will also be introduced to percentage and converting between fractions, decimals and percents.

### FUND 0090 Study Skills - 30 Hours

Students will learn to use effective study habits and strategies for remembering information found in their textbooks and heard in class lectures. Students will also learn to use a strategy for reading and taking notes from textbooks, in class, and learn effective strategies for taking the five types of tests most frequently given by teachers.

### FUND 0091 Davis School District Technical Tutoring - 250 Hours

Technical tutoring provides designated high school students with individual tracking to improve student success in Davis Applied Technology College courses. Students are provided assistance in study skills, test preparation as well as review of student progress and attendance.

### PLAP 1011 Plumbing 1A - 90 Hours

During this course students will gain an understanding of the history and importance of plumbing, an introduction to the occupation, general health and safety, and how to apply for a job within the plumbing industry. Students will learn about tools and equipment, including hand and power tools. As part of the course, administration, definitions, and general regulations of the International Plumbing Code will be included and students will learn pipe fittings and mathematics as it applies to the plumbing industry. Students will complete Red Cross Certified First Aid and CPR Training in this course.

### **PLAP 1012 Plumbing 1B - 90 Hours**

In this course students will be taught industry mathematic skills including standard weight pipe, allowance for threaded pipe, copper tubing, allowance for copper fittings, plastic pipe, and allowance for plastic fittings, welded steel piping, and allowance for weld-type fittings. Students will also learn equal spacing, angles in plumbing, offset, diagonal and rise or run, solving for 45° angles, 45° diagonal and pipe length, three-pipe diagrams with a 45° offset, right angle with a 45° diagonal, 45° offset with Wye fitting, Wye and Tee-wye assemblies. Students will learn about fixture faucets and fittings with the International Plumbing Code. In addition, students will learn fixture and appliance installation, system maintenance and repair, and water and sewage treatment plants.

### **PLAP 1021 Plumbing 2A - 90 Hours**

In this course, students will become knowledgeable in the areas of administration, definitions, general regulations, fixtures and faucets,, water heaters, water supply and distribution for the International Plumbing Code. Water systems, joining pipes, and private water systems for residential plumbing will also be covered. Students will learn blueprint reading, sketches and diagrams for Plumbers, and rough-in locations. At the end of the course, students will be able to set toilets, including wall-hung, floor mount and urinals, install sinks, and repair valves.

### **PLAP 1022 Plumbing 2B - 90 Hours**

In the International Plumbing Code, students will learn secondary drainage, indirect and special waste, and vents. For residential plumbing, students will learn drainage systems, septic systems, and water treatment. Mathematic concepts will be included covering grade, percent grade, drop and run; elevation and grade; elevation in a plan view pipe diagram, 45° offsets in parallel and rolling offsets.

### **PLAP 1031 Plumbing 3A - 90 Hours**

In this course, students will learn general regulations, fixtures, faucets and fixtures for the International Plumbing Code. They will also learn water heating, Vents, combustible air, chimney, and vents in the International Mechanical Code. Students will study rectangular solids, cylinders, and spheres in mathematics. Finally, students will learn how join PVC pipes and fittings, soldering copper pipes and fittings.

### **PLAP 1032 Plumbing 3B - 90 Hours**

In the International Plumbing Code, students will review vents, commercial applications, indirect waste, commercial/industrial waste applications, water supply and distribution, and special piping and storage systems. Special piping and storage systems will also be included. In the International Fuel and Gas Code, students will learn pipe materials, sizing, gas valves and controls, installation requirements, appliance connections, and supplemental and standby gas supplies.

### **PLAP 1041 Plumbing 4A - 90 Hours**

In this course, students will learn traps and commercial applications, storm drainage for the International Plumbing Code. As part of the International Mechanical Code, students will study boilers, water heaters, and pressure vessels. Welding safety, Oxy-acetylene cutting SMAW (ARC) welding, and GMAW (TIG) welding will also be included in the course content as it applies to the plumbing industry. In addition Plumbing trade formulas will be reviewed.

### **PLAP 1042 Plumbing 4B - 90 Hours**

As part of the International Mechanical Code, students will learn about boilers, water heaters, pressure vessels, refrigeration, and hydronic piping. In the International Plumbing Code, students will review all applicable in preparation for the Utah Journeyman license written exam. The study of hydronics systems, including radiant floor heating, distribution and piping systems, expansion tanks, air removal, and auxiliary heating loads will be included as part of the course content. Extensive laboratory work will be spent on projects to simulate the Utah Journeyman license practical exam.