Davis Applied Technology College
A UCAT Campus
550 E 300 S, Kaysville 84037
Phone: 593-2500

Course Descriptions - Heating and Air Conditioning
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.

HVAC 1011 HVAC Technician Level 1a - 90 Hours

This class introduces the basics of the heating, ventilation, and air conditioning trade. Students will be introduced to trade specific basic safety practices, hand and power tools, metal piping systems, and the fundamentals of electricity and basic heating systems. Additionally, students will earn their OSHA Safety Certification. This course prepares student for success as they begin their training program.

HVAC 1012 HVAC Technician Level 1b - 90 Hours

Students will learn the basic principles of refrigeration and air conditioning systems. They will become more familiar with the tools of the trade, how to work with plastic and copper piping as well as the operation and use of torches to braze tubing. Blueprints, symbols and blueprint reading will be introduced.

HVAC 1021 HVAC Technician Level 2a - 90 Hours

This class prepares the student to pass the Rocky Mountain Gas Association's Natural Gas Technician Certification. Alternating current and the various electrical components used in heating and air conditioning systems will be introduced. Students will learn about the operation and testing of electric furnaces and related components. This course also covers solid-state electronics and devices used to control humidity and air cleanliness. Students will learn the basics of residential system sizing, design, fabrication and evaluation.

HVAC 1022 HVAC Technician Level 2b - 90 Hours

This class covers the troubleshooting of HVAC accessories, heat pumps, gas heating, hydronic heating and cooling systems. The student will learn specific troubleshooting methods that apply to these types of equipment and the maintenance skills a technician will need in order to service HVAC systems.

HVAC 1031 HVAC Technician Level 3a - 90 Hours

This class covers the troubleshooting of HVAC accessories, heat pumps, gas heating, hydronic heating and cooling systems. The student will learn specific troubleshooting methods that apply to these types of equipment and the maintenance skills a technician will need in order to service HVAC systems.

HVAC 1032 HVAC Technician Level 3b - 90 Hours

The student will be trained on heat pump basics, including troubleshooting and basic installation. Students will learn balance points, Coefficient of Performance (COP's), Heating Season Performance Factor (HSPF's) advantages and disadvantages for different applications as well as the growing application of dual-fuel systems. If desired, students will be prepared to take the NATE exam at the end of the course.

HVAC 1041 HVAC Technician Level 4a - 90 Hours

This course concentrates on many of the important side issues in the HVAC field. Basic rigging is covered and the student is given training on safe procedure to rigging and crane operations. Airside systems and indoor air quality include two of the most important facets of the HVAC field today. Students will also learn evaporative cooling and energy conservation equipment, as well as economizers and swamp coolers.

HVAC 1042 HVAC Technician Level 4b - 90 Hours

In this course students will learn to design residential HVAC systems including Air Conditioning Contractor's of America (ACCA) manual J, S and D. Students will learn duct systems and the selection of equipment such as gas furnaces, heat pumps, dual fuels, water source heat pumps and electric furnaces. Students will learn to calculate heat loss and heat gain.

WKSK 1400B Workplace Relations - Blended - 60 Hours

This course will help students develop essential human-relation skills needed to maintain gainful and satisfying employment. Course content includes familiarization with problematic areas found in the workforce including, solving problems; understanding relationships and diversity; increasing personal ethics; and developing strong personal, interpersonal, and human relation skills.