



Davis Applied Technology College

A UCAT Campus
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Course Descriptions - Diesel/Heavy Duty Technology Catalog Year: 2012

BTEC 1110_ Computer Literacy (Program Based) - 90 Hours

This course provides students with a fundamental understanding of computing including knowledge and use of computer hardware, software, and operating systems. The course will cover basic use and common features of applications (word processing, spreadsheet, and database) including internet use and e-mail. This course includes information regarding setting up an ergonomic environment, maintaining healthy work habits and health risks involving eye strain and repetitive stress injuries.

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.

HVDD 1000 Preventive Maintenance Inspection - 90 Hours

This course introduces students to the service and preventive maintenance practices commonly found within the trucking industry. Course content includes inspection and maintenance of basic truck systems including cab and hood, engine systems, electrical systems, frame and chassis, as well as specific types of inspections: circle, drive-on, and full preventive maintenance inspection.

HVDD 1010 Drive Train - 90 Hours

This course provides the student with theory and hands-on experience on maintenance and repair of the heavy duty drive train systems. Instruction and repair will cover clutches, transmissions, drive lines and differentials. The student will be required to perform clutch adjustments and replacement, pull transmissions, pull and repair drive lines and u-joints, and differentials.

HVDD 1025 Diesel Engines - 210 Hours

This course provides the student with theory and hands-on training in basic operation, parts and overhaul procedures of a diesel engine. The course covers the removal, service, and repair of engine blocks, crankshafts, pistons, rings, connecting rods, camshafts, valve trains, injection pumps and accessories in both small and large diesel engines.

HVDD 1035 Safety and Shop Skills - 60 Hours

This course will provide students with the theory and hands-on training in basic skills and safety. Students will receive detailed training on shop safety, fire safety, proper attire, basic welding, use of electric machinery, and the use of basic tools. Students will be required to pass a safety exam before they are allowed to begin work in the shop.

HVDD 1040 Hydraulics I - 60 Hours

This course provides instructions and hands-on training of fluid power (hydraulics) as used in modern mobile equipment. Instruction includes practical theory and hands-on training related to the operation and repair of hydraulic/pneumatic components and systems. This course emphasizes testing, troubleshooting, design and use of hydraulic schematics.

HVDD 1200 Heavy Duty Brakes - 60 Hours

This course provides the student with theory and hands-on experience on heavy duty brake systems. The course will cover maintenance and repair of air, ABS, wheel bearing systems, and wheels. Students will learn each component of the brake system, their function, how to recognize when the components need service, and how to perform the necessary repairs or replacement needed to ensure safe operation.

HVDD 1300 Suspension and Steering - 90 Hours

This course provides the student with theory and hands-on experience on the maintenance and repair of the heavy duty steering and suspension. Instruction covers kingpins, tie rods, steering gear box, hydraulic brake systems and frame removal, service, and repair, as well as alignment for both light and heavy duty trucks.

HVDD 1400 Heavy Duty HVAC - 90 Hours

This course provides the student with theory and hands-on experience in troubleshooting and repair of heavy duty truck air conditioning systems. Instruction covers condensers, check valves, driers, compressors, evaporators, controls, heating and engine cooling systems, operating systems and controls, and refrigerant recovery, recycling, and handling.

HVDD 1500 Electrical/Electronic Systems - 120 Hours

This course will provide students with the theory and hands-on training in basic electrical components and systems, vehicle charging and starting systems, and electrical engine component tune-up and diagnosis. Students will receive detailed training on lights, wiring schematics, circuits, alternators, starter motors, and how to time and adjust the electrical components of engines. Students are required to wire various circuits and use electrical test equipment to troubleshoot alternator, starter motor, and engine electric components and systems.

HVDD 1600 Practical Applications - 60 Hours

This course tests the student on the basic knowledge required of a diesel technician and requires the student to perform live work on the systems and components they have been learning about. The course allows students to become more familiar with working on vehicles, and exposes them to a variety of problems that may not be in the other course materials.

MATH 1000_ Math I (Program Based) - 60 Hours

This course offers an introduction to basic mathematics using mathematical concepts that can be applied to everyday life. Topics include fractions, decimals, ratios, proportions, conversions, averages and percentages. Prerequisites: TABE Computation score of 570 or higher or FUND 0085 Computational Math Skills

WKSK 1400_ Workplace Relations (Program Based) - 60 Hours

This course will help students develop essential human-relation skills needed to maintain gainful and satisfying employment. This course 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.

WKSK 1500_ Job Seeking Skills (Program Based) - 30 Hours

This course helps prepare students to successfully apply for a job. This course will present essential job-seeking skills needed to find gainful employment including: developing resumes, applications, networking and interview skills.
