Dennis Technical Education Center

Career and Technical Education Programs

Our Mission

The staff of the Dennis Technical Education Center strives to provide a quality, industry-aligned, hands-on education, which provides opportunities for each student to thrive as a citizen in Idaho, the nation, and the world.

2017-2018

Career and Technical Education

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All Program Information

Program Selection Criteria

High school students from across the Treasure Valley may enroll in Dennis Technical Education Center programs. Boise School District students, Kuna School District students, private school students, home-school students, and virtual academy students are all eligible to apply.

Program selections may be made based on students' record of:

- Disciplinary actions
- Application
- Recommendations

Program Locations

Two Clinical Health Professions programs (CNA and Dental Assistant) are located at Fort Boise School: 300 W. Fort Street, Boise, Idaho.

Information Technology (IT) and Pharmacy Technician programs are located in the IT wing at Frank Church High School: 8051 W. Salt Creek Drive, Boise, Idaho. This is immediately South of the Dennis Technical Education Center.

Remaining programs are located at the Dennis Technical Education Center: 8201 W. Victory Road, Boise, Idaho.

Transportation

Bus transportation is provided to and from the home high school to Dennis Technical Education Center and the IT wing. Students may drive themselves between schools.

Students who are attending internships must provide their own transportation.

All Program Information (continued)

College Credits

CTE Advanced Opportunities links approved high school professional-technical programs to certificate and degree programs at a technical college. Depending upon the CTE course, there may be two options for high school students interested in professional-technical courses: CTE Dual Credit and Technical Competency Credit (TCC).

Student Leadership Organizations

Business Professionals of America
www.bpa.org

Family Career and Community Leaders of America
www.fcclainc.org

Health Occupations Students of America
www.hosa.org

SkillsUSA
www.skillsusa.org

These student organizations empower their members to become leaders, world-class workers, and responsible citizens.

All Program Information (continued)

Fees Associated with Courses

Enrollment at the Dennis Technical Education Center is free. There is no additional tuition to attend. However, depending upon the program, students may be required to purchase the following:

- Coveralls
- Safety Glasses
- Machining Apron
- Graphic Design Portfolio
- Welding Gloves
- Welding Helmet
- Welding Cap
- Welding Coveralls

Students may also be required to pay a fee for materials associated with courses:

- Class Material Fee
- Personal Vehicle Repairs
- Personal Projects

Students enrolled in Clinical Health Professions Courses (CNA, EMT, Dental Assisting, and Pharmacy Technician) may be required to purchase the following:

- CPR Card
- Uniforms
- Certification Exams
- Vaccines
- Books and/or Software

Financial assistance is available for students who qualify; please contact the Principal or Assistant Principal for further information.

Course Credits and Grading

Students will receive 4 credit hours per course, per year, with a letter grade earned (A—F). Courses are 80 minutes per day, Monday – Friday.

Auto Body (Collision Repair) Technology

Overview

Students will be introduced to the collision repair industry, focusing on the basic skills required to become an entry-level technician. Students will learn in an Inter-Industry Conference on Auto Collision Repair (I-CAR) and Automotive Service Excellence (ASE) Approved Facility.

Course Description

Students will learn:

- Prep for paint
- Removal and replacement of bolt-on parts
- Dent repairs
- Final detailing
- MIG welding
- Plastic repairs
- Setup and measure for frame and unibody alignment
- Mechanical part operation and replacement
- Estimating
- Résumés and career exploration

Career Opportunities

Collision Repair Technician, Automotive Refinish Technician, Shop Foreman, Shop Owner, Estimator, Production Manager, Insurance Industry (sales, estimator, forensics, claims), Paint Supplier, Parts Supplier, Restoration Technician (classic or vintage vehicles), and more!

Leadership Organization

SkillsUSA - www.skillsusa.org

Automotive Technology

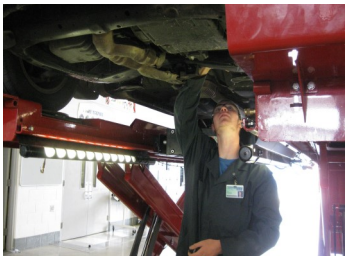
Overview

Students will be introduced to automotive and diesel diagnostics, servicing, maintenance and minor repair. Students will learn in an Automotive Service Excellence (ASE), National Automotive Technician Education Foundation (NATEF), and Automotive Youth Educational Systems (AYES) accredited facility.

Course Description

Students will learn:

- Auto Tech 1: careers, tools, equipment, manual use, safety, fluid maintenance, and fundamentals of engine construction
- Auto Tech 2: advanced skill training in: shop safety, servicing, electrical, fuels, emission controls, tune-ups, brakes, alignment, air conditioning, transmission service, and evaluating automotive engine systems
- Auto Tech 3: training for entry-level technician positions, including: diagnostics, repair, tune-up, engine performance, electrical testing, fuel delivery, emission controls, air conditioning, alignment, and brake systems
- Résumés and career exploration



Career Opportunities

Automotive Lubrication & Maintenance Technician, ASE Certified Specialist, Drivability Technician, Recreational Vehicle Repair Technician, Farm and Industrial Technician, Automotive Parts and Service Managers , Automotive Parts Sales Representatives, and more!

Leadership Organization

SkillsUSA -www.skillsusa.org

Certified Nurse Assistant (CNA)

Overview

Students will work closely with Registered Nurses (RN) to become a Certified Nurse Assistant (CNA), also referred to as a nurse's aide, orderly, patient care technician, and home health care aide. Students have the opportunity to earn college credits and an Assistance with Medication Certification.

Course Description

Students will learn:

- How to provide social and emotional support to patients
- How to communicate vital information to nurses on patient conditions
- Hands-on patient care
- Professional behaviors in medical environments
- Résumés and career exploration
- CNA Internship (Year 3): Students must find, apply for, and maintain a healthcare field position working a minimum of 10 hours per week. Students will attend one CNA class per week.

Career Opportunities

Certified Nurse Assistant (CNA), Registered Nurse, Physician, Physician Assistant, Nurse Practitioner, Radiology Technician, Physical Therapist, Respiratory Therapist, Occupational Therapist, and more!

Leadership Organization

HOSA - www.hosa.org

Computer Support

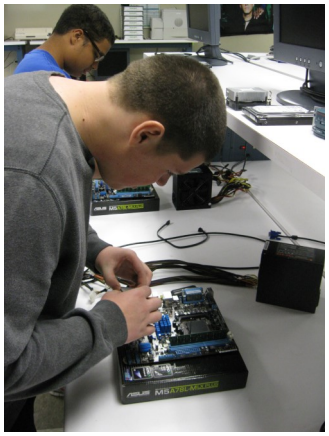
Overview

Like technology? Then these classes are for you! Students will gain hands-on skills building computers, installing software, installing different types of hardware, and setting up home networks. Also, students will learn how to troubleshoot computers, home networks, and endless types of associated hardware and software. Nearly every job you will have involves these technologies, so give yourself a leg up over the competition.

Course Description

Students will learn:

- How to identify, install, manage, and troubleshoot computers, home networks, and their components
- Develop customer service and other communication skills
- How to improve technical reading and writing skills
- Résumés and career exploration



Career Opportunities

IT Customer Support Specialist, Desktop Support, IT Support, Support Specialist, System Analyst, Help Desk Technician, System Administrator, and more!

Leadership Organization

BPA - www.bpa.org

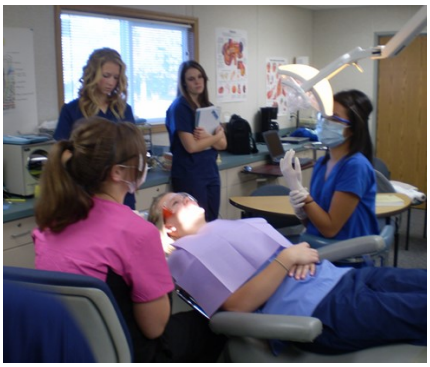
Dental Assistant

Overview

Students will work with patients and dentists to gain an understanding and knowledge of medical terminology, basic anatomy and physiology, disease processes, and the physical and emotional needs of others.

Course Description

Students will learn:



- Clinical and practical aspects of Dental Assisting
- Participation in patient care activities
- Infection control procedures
- Preparation of dental materials
- Exposing and processing dental radiographs
- Business office skills
- Assisting with specialized procedures
- Résumés and career exploration

Career Opportunities

Dental Assistant, Dental Hygienist, Dentist, Dental Equipment Supplier, Dental Office Administration, and more!

Leadership Organization

HOSA - www.hosa.org

Electronics Technology

Overview

Students will learn basic electronics knowledge which can help students diagnose and repair many commonly used devices. Basic electronics are studied: DC, AC, digital and solid-state devices.

Course Description

Students will learn:

- Basic Electronics Technology: designing, building, and soldering electronics circuits through hands-on skill training, understanding theory, and exploring careers
- Intermediate Electronics Technology: basic alternating current (AC) electronics, AC measurements and measuring instruments, the use of complex math to solve AC circuits, study of amplitude, phase, impedance, power, and characteristics of inductors, capacitors, and transformers
- Advanced Electronics Technology: further exploration of AC theory, understanding modern electronics, digital, analog. Coursework is project-based, with emphasis on student performing specified tasks in a workplace environment, meeting deadlines, and performing required written documentation associated with each project
- Résumés and career exploration

Career Opportunities

Electronics Repair and Maintenance Technician, Equipment Technician, Electrical Engineering, and more!

Leadership Organization

SkillsUSA - www.skillsusa.org

Elementary Teacher Intern

Overview

Students will work with elementary students in the Boise School District on a daily basis while developing knowledge of organization, multi-tasking, effective communication, child development, instructional strategies, and basic knowledge in primary subjects.

Course Description

Students will learn:

- How to be a professional in an educational setting
- How to plan, organize, and implement lesson plans
- Introduction to beginning reading process
- Career opportunities in teaching
- Development patterns in children
- Résumés and career exploration

Career Opportunities

Elementary Teachers, Secondary Teachers, School Counselors, Social Workers, Classroom Assistants, Elementary Administrators, Secondary Administrators, Paraprofessionals and more!

Additional Information

Students are responsible for providing their own transportation to the off-site internship locations.

Excellent attendance is required.

Course is open to Juniors and Seniors only.

Leadership Organization

FCCLA - www.fcclainc.org

Emergency Medical Technician (EMT)

Overview

Students will have the opportunity to learn important information pertaining to all positions in the emergency medical field. The course is certified through the Idaho Department of Health and Welfare. Students who successfully complete the course can complete the EMT-B (Basic) examination.

Course Description

Students will learn:

- Emergency medical care and treatment
- Exploration of career fields and opportunities
- Medical terminology
- Anatomy and physiology
- Patient care
- Résumés and career exploration

Career Opportunities

Emergency Medical Technician (EMT), Firefighter, Paramedic, Emergency Room (ER) Physician, Flight Nurse, Wild Land Medic, Wilderness Medical Technician, and more!

Leadership Organization

HOSA - www.hosa.org

Graphic Design

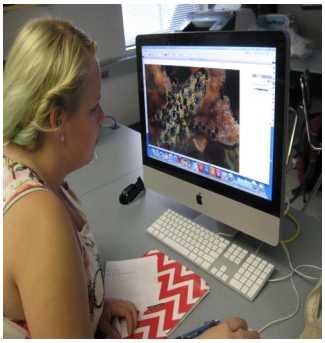
Overview

Students will utilize conceptual thinking, visual problem solving, professionalism, craftsmanship, diligence, independent work, creative thinking, artistic skills, computer and communication skills. Students will master various software packages on both Mac and PC platforms and will develop self-marketing skills.

Course Description

Students will learn:

- To design posters, CD cases, package designs and business identities
- Skills to become a designer
- Use Apple computers
- Use Adobe Creative Suite software
- Create signs and window stickers
- Create a portfolio for job applications and/or art school
- Set up pre-press files
- Résumés and career exploration



Career Opportunities

Graphic Design, Web Design, Multimedia, Marketing, Motion Graphics, Interactive Design, Animation Design, Fashion Design, Gaming Design, and more!

Leadership Organization

SkillsUSA - www.skillsusa.org

Heavy Equipment / Diesel Technology

Overview

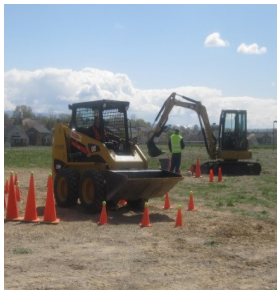
Students will read and understand specifications and diagrams, use four basic math operations in US standard and metric systems, work safely in a shop environment, access information by computer, and gain an understanding of mechanical technology, electrical systems, electronics, and basic computer controls. Students will learn in an Automotive Service Excellence (ASE), National Automotive Technician Education Foundation (NATEF), and Automotive Youth Educational Systems (AYES) accredited facility.

Course Description

Students will learn:

- Heavy Equipment / Diesel 1: careers, tools, equipment, manual use, safety, fluid maintenance and fundamentals of engine construction
- Heavy Equipment / Diesel 2 and 3: diesel-specific diagnostics, service, hydraulic repair, electrical, preventative maintenance inspection (PMI), and brakes
- Résumés and career exploration

A hands-on approach with extensive training on mock-ups, functional vehicles and equipment will be utilized.



Career Opportunities

Diesel Technician, Shop Owner, Shop Manager, Military Fleet Specialist, Service Manager, Shop Foreman, and more!

Leadership Organization

SkillsUSA - www.skillsusa.org

Networking Support

Overview

Students will use strong problem solving skills, analytical and communication skills, basic computer keyboarding skills, and binary math and algebra functions. Course opportunities include: Computer Networking Basic, Internetworking Techniques, Computer Technology, Network Administration, Panduit (Voice and Data Cabling), and IT Internship—Network and Computer Support

Course Description

Students will learn:

- How the internet works using equipment such as routers, switches, and web servers
- Technologies such as voice, video, wireless, and security on a network
- Manage and troubleshoot networks, hardware, software, and user-related issues
- HTML/xHTML, CSS, JavaScript, animation, and software
- Résumés and career exploration

Career Opportunities

Network Associate, Network Technician, Network Administrator, Technical Support Specialist, Help Desk Technician, Web Designer, Webmaster, and more!

Leadership Organization

SkillsUSA- www.skillsusa.org

Pharmacy Technician

Overview

Certified pharmacy technicians are valuable assets to the licensed pharmacist. This program will prepare individuals to assist and support licensed pharmacists in providing health care and medications to patients. Program graduates will be eligible to take the state and national pharmacy technician certification exams.

Course Description

Students will learn:

- To recognize and use pharmaceutical and medical terms
- Prepare and distribute medications
- Compliance with all federal and state pharmacy laws
- Confidentiality of patient information
- Professional conduct
- Résumés and career exploration

Career Opportunities

Pharmacy Technician, Pharmaceutical Representatives, Pharmacists, Registered Nurse, Physician, Radiology Technician, Physical Therapist, Physician's Assistant, Nurse Practitioner, and more!

Leadership Organization

HOSA - www.hosa.org

Plumbing, HVAC, and Electrical Trades

Overview

Students will be introduced to residential, commercial, and industrial work in plumbing, HVAC (heating, ventilation, and air conditioning), and the electrical trades. This introductory course is designed to help direct students into the specific pathway trade of their choosing.

Course Description

Students will learn important skills in each trade including:

- Safety
- Theory
- Mathematics
- Codes
- Blueprint Reading
- Tools
- Résumés and career exploration

Career Opportunities

Plumbers, HVAC Technicians, Electricians, and more!

Leadership Organization

SkillsUSA - www.skillsusa.org

Precision Machining

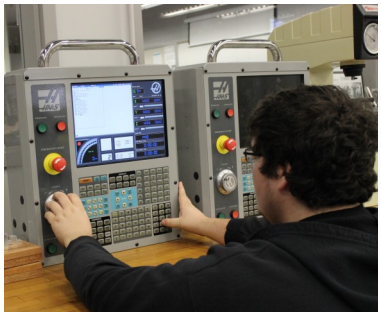
Overview

Students will learn to program and operate Computer Numerical Control (CNC) machinery that produces various products for the aerospace, automotive, and medical device fields. Skills will be developed in math to include algebra, geometry, and trigonometry. Students will use microscopes, optical comparators, and hand-held instruments to measure critical dimensions and tolerances of the parts manufactured. Academic and theory classes contribute to a background used by the engineering field.

Course Description

Students will learn:

- Blue Print reading
- Applied mathematics—geometry, algebra, and trigonometry
- Advanced metrology logistics
- Correct set up and operation of manual and computerized Machining Centers
- Safe operation of industrial machine tools
- Complete machining projects
- Résumés and career exploration



Career Opportunities

CNC and Manual Machinery Technician, Quality Assurance Logistical Metrology, Quality Control, Mechanical Engineer, Tool and Die Specialist/ Manufacturer, Automotive or Aerospace Parts Machinist, Tool and Cutter Grinder, Engineering, and more!

Leadership Organization

SkillsUSA - www.skillsusa.org

Residential Carpentry / Building Construction

Overview

- Students will have exposure to real-world projects, timelines and trades, allowing for an effective inquiry-based educational opportunity. National Center for Construction Education and Research (NCCER) Core Curriculum and Carpentry Level 1 curriculum used.

Course Description

Students will learn:

- Construction safety and hands-on industry skills
- Hand and power tool usage
- Reading blueprints
- Rigging
- Building materials
- Flooring systems
- Construction math
- Wall, ceiling, window, door, and roof framing
- Design and build personal projects
- Résumés and career exploration

Career Opportunities

Commercial and Residential Construction Trades Nationwide, Independent Contractor, 4 Year Union Apprenticeship, Carpenters, Electricians, Plumbers, Pipefitters, Cabinetmakers, HVAC Specialist, and more!

Leadership Organization

SkillsUSA - www.skillsusa.org

Welding

Overview

Students will be introduced to welding and metal fabrication as an important component in commercial and residential construction, manufacturing, and many other industries. Students will have the opportunity to earn American Welding Society (AWS) certification.

Course Description

Students will learn:

- Procedures to safely use industrial machine and hand tools
- Blueprint reading and layout
- Arc welding: gas metal, flux cored, oxy-acetylene
- Plasma-arc and carbon-arc cutting
- Fabrication of projects
- Maintenance of state-of-the-art machinery and equipment
- Résumés and career exploration

Career Opportunities

Metal Fabricators, Welders, Fitters, Pipe Welders, Iron Workers, Structural Steel Constructors, Underwater Welders, Sheet Metal Layout, and more!

Leadership Organization

SkillsUSA - www.skillsusa.org

Zoology / Fish and Wildlife Sciences

Overview

Students will gain a strong knowledge of animal identification, biology, ecology, natural resources, and wildlife management through hands-on interaction, lecture, and field investigations.

Course Description

Students will learn:

- Zoology (Year 1): Study focuses on zoology, wildlife conservation, fisheries and marine biology, Idaho wildlife issues, and careers in wildlife and resource management.
- Ecology/ Natural Resource Science (Year 2): Study focuses on natural resource management with an emphasis on wildlife, aquatics, forestry, soils and agriculture, biodiversity in ecosystems, sustainable use, and wildlife populations.
- Ecology/Environmental Science and Fundamentals of the Plant Industry (Year 3): Study focuses on practical experiences in environmental science including agricultural / industrial chemical issues, conservation practices, and environmental issues.
- Résumés and career exploration

Career Opportunities

Biologist for Wildlife and Fisheries, Conservation Officer, Veterinarian, Veterinary Technician, Forester, Forestry Management, Water Resource Manager, Soil Scientist, Fisheries Technician, Natural Resource Management, and more!

Leadership Organization

SkillsUSA - www.skillsusa.org

Notes

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