

Building the 21st Century Classroom

Agricultural Education

Equipment/Software specifications:

- 1) 21st Century Technology for students and teachers. Will include instructor presentation systems (LCD projector, Smartboard, laptop, Interwrite pad or airliner, Elmo or document camera), 25 student computers, E-Instruction (CPS units), digital cameras, etc.
- 2) Clean Air Act: dust collection system for machinery and proper point source ventilation for welding areas.
- 3) Upgrade all shops to include the most up-to-date and safest equipment (ex. Saw stop, plasma cam, etc.).
- 4) Purchase safety equipment for Ag science/biotechnology labs (ventahoods, lab tables, etc.).
- 5) Purchase agricultural software for teacher and student use (CAERT, CEV, etc.)

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Building the 21st Century Classroom

Business and Marketing Education

Description of Activity:

By providing students with advanced technology in the Business/Marketing classroom, we must incorporate the 21st century skills of global literacy, computer literacy, problem solving, critical thinking, creativity and innovation.

The purpose of the 21st century classroom is to equip all students with the tools needed to succeed in today's technologically changing world. The students will experience real world scenarios within the classroom through the integration of digital literacy.

Equipment/Software specifications:

For the Apple Mac Lab-

- Classroom set (25-30) IMAC computers with minimum of 2 gigs of RAM (3 gigs is preferred), offering dual operating systems through Bootcamp. The additional operating system may be Windows XP or VISTA.
- MAC Book computer/laptop for teacher use

For the Windows PC Lab-

- Classroom set (25-30) Windows VISTA computers with minimum of 2 gigs of RAM (3 gigs is preferred), offering dual hard drives.
- Laptop for teacher use

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Software should include:

- Microsoft Office 2007 Suite
- Adobe CS4 Master Collection

Additional equipment above minimum requirements may include:

- Classroom set (25-30) digital cameras with minimum of 12 megapixel resolution
- Five (5) digital camcorders with hybrid storage including tripods
- Green screen with dedicated area
- Plotter printer
- Two (2) Color laser printers with multi-size printing capabilities
- Presentation equipment/software such as: Sypodium, Interwrite tablet and LCD projector with 1200 lumen minimum.
- Designated server or network connected storage system

The classroom will be equipped with wireless network technology.

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Career Guidance Activities for Secondary Schools

Youth Internship

There is an immediate need to provide applied learning education with job skill profiling and work-based learning for high school juniors and seniors looking for direct entry into the workforce. This project will offer students 16 years of age and above an 8-week summer education and training program to help them transition smoothly into the workforce and/or the Youth Apprenticeship program where they can transition to the Apprenticeship program or into the workforce. This program will include JAG, Internship, Marketing Management WBL, Agricultural Apprenticeship, and Workplace Readiness.

Career Development Facilitator (CDF) Training and Placement

CDF training can enhance the skills and knowledge of individuals who work with students from middle school through postsecondary education. Career Tech Teachers or Counselors may receive the training and work as a CDF on a part-time or full-time basis to work directly with students or assist other professionals who do so in the career planning and development process. A CDF will allow the school to improve the quality of career planning interventions provided to students to help improve graduation rates, postsecondary placement, and CTE completer status.

Instructional Software, Presentation Equipment, and Student Computers

To improve student learning career guidance teachers and counselors are encouraged to use multimedia presentations with the latest technology with lessons or activities relating to career guidance, planning and development.

Examples include:

- **Career Cluster Exploration Pathway from CEV Multimedia** – CEV Multimedia has designed its curriculum to fit any Career Cluster model. Instead of traditional courses, we developed Pathways comprised of Multimedia Pathway Units (MPU), and each MPU consists of varying multimedia pieces which are conveniently packaged together. The Career Cluster Exploration Pathway contains the following MPUs: Career & Personal Development...
- **Career Cruising** - Career Cruising is an interactive career resource designed for people of all ages. If you want to find the right career, explore different career options, or plan future education and training, you've come to the right place!
- **Kuder** – Software license has been purchased, but up-to-date computers must be in place for 6-year career planning and portfolio development.

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- **Career Solutions Publishing** - Develops classroom materials that focus on **workplace ethics, work readiness, integration of academics and careers, and personal money management**. All CSP products contain motivating activities, practical and relevant applications, and instructor's guides. Students and teachers like the easy-to-understand and realistic materials.
- **KeyTrain and Career Ready 101** – A comprehensive system providing curriculum (computer-based, print and Internet) for the WorkKeys® employment system. The KeyTrain system includes targeted, self-paced instruction, pre- and post-assessments, a complete learning management system and an occupational job profiles database. These components can be used to help individuals learn, practice and demonstrate the skills needed in the workplace.

For programs where students need to access training in remote or distributed locations, KeyTrain's Internet version offers an excellent alternative for networked lab-based classrooms. It includes the full complement of KeyTrain courses and learning management features. The flexibility of the Internet allows users to access KeyTrain anytime, anywhere there is a computer with a browser and Internet connection. KeyTrain's Internet learning management system is integrated with the database of WorkKeys® occupational profiles, enabling instructors to automatically assign lessons and goals for a learner based on an occupational profile. Simply select a profile and KeyTrain assigns the matching courses and goals. KeyTrain software is being provided, however up-to-date computers should be in place for student training.

**Contact the Department of Workforce Education for more details on all of the above activities.
(501) 682-1040**

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Criminal Justice Activities

Equipment/Software specifications:

Faces Composite Picture Software - \$900.00 for a site license

Crime Zone/Crash Zone – \$25.00 per computer (educational price only) w/no charge for the instructors computer. Includes training and technical support. Can toggle back and forth between the two programs.

Fingerprint Powder Station w/Downdraft Hood - \$3200.00 for 36" station.

Cyanoacrylate Fuming Chamber - \$4500.00 for 30" w/good ventilation.

Ninhydrin Ductless Fume Hood – \$2600.00 for 36" station

Bring current technology and equipment up to 21st century standards.

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Family and Consumer Science Education

Equipment/Software specifications:

- Laptop computer with Microsoft office 2007
- LCD Projector
- Student computers to exceed the minimal specifications set by DWE
- Computerized Presentation Board
- Computerized Presentation Tablet
- Visual Demonstration Projector
- Student Response System
- Financial Calculators
- Office 2007 Professional Software
- Computerized Die Cut System
- Large Format Poster Printer
- Digital Photo Equipment (Camera, Recorder, Printer, Software)
- Teacher Voice Projection System and Software
- iPods with headphones for instructional use
- External Hard Drive

The following items are specific to a Program of Study and in addition to the items listed above:

Child Care Guidance Management and Services (High Skill High Wage Program)

- Computerized Infant Simulator and Accessories (to include Shaken Baby, Drug Addiction and Fetal Alcohol simulators)
- Curriculum Software (Architectural for commercial or retail layouts , Financial Management, Business Management, Nutritional Analysis)

Consumer (High Skill High Wage Program)

- Fabric Calculators
- Computerized Sewing Machines

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- Curriculum Software (Architectural for commercial or retail layouts , Financial Management, Business Management, Pattern or Fashion Design)

Cosmetology

- Curriculum Software (Architectural for commercial or retail layouts , Financial Management, Business Management, Hair Design)
- Commercial Salon Equipment (above that required on the minimum equipment list)

Culinary Arts or Food Production Management and Services

- Kitchen Calculators
- Commercial Thermometers (Infrared, Thermistors, Thermocouples)
- Green Technology Appliances (
- All in One Demonstration Table (with on-board water supply and stove top)
- Curriculum Software (Architectural for commercial or retail layouts , Nutritional Analysis, Financial Management, Business Management, Menu Planning)
- Electronic Scales
- Commercial Restaurant Equipment (above that required on the minimum equipment list)

Education and Training (High Skill High Wage Program)

- Curriculum Software (Financial Management, Classroom and Lesson Planning)
- Instructional Technology (above that required on the minimum equipment list)

Family and Consumer Sciences Education

- Kitchen Calculators
- Fabric Calculators
- Computerized Infant Simulator and Accessories (to include Shaken Baby, Drug Addiction and Fetal Alcohol simulators)
- Computerized Sewing Machines
- Green Technology Appliances (ranges, refrigerators, laundry equipment)
- All in One Demonstration Table (with on-board water supply and stove top)

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- Curriculum Software (Housing Design, Architectural , Fashion Design, Pattern Design, Nutritional Analysis, Financial Management)

Lodging Management

- Curriculum Software (Financial and Business Management, Property Management such as Front Desk for reservations, check out, employee scheduling)

Student Leadership Organizations (FCCLA, FEA)

(As connected to framework activities)

- Laptop computer with Microsoft office 2007
- LCD Projector
- Computerized Presentation Tablet
- Presentation Mouse
- Computerized Die Cut System
- Large Format Poster Printer
- Digital Photo Equipment (Camera, Recorder, Printer, Software)
- Laminator

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Health Science Technology Education

Equipment/Software specifications:

Vital Simms Mannequin – programmable mannequin which helps students practice taking vital signs, give injections, check range of motion, run EKG's, intubate, etc. Sounds such as breathing, coughs or moans can also be programmed.
Approximately \$5000.00

Patient Transfer Gurney – Approximately \$1,200.00

Patient Lift and Transfer Sac – Approximately \$1,800.00

Mini Vid (visual image display) Camera – interacts with microscope to display slides and other images onto a screen via a USB port. Approximately \$500.00

Renovation/remodels – for lab areas that are too small to properly conduct practicals
Bring video libraries up to date to enhance student understanding of material.
Bring current technology and equipment up to 21st century standards.

Contact the Department of Workforce Education/ Professional and Technical Education Program area for more details on connected curriculum materials. (501) 682-1040

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Transportation

Equipment/Software specifications:

Items needed for each program.

Automotive Service Technology

- 1 On-Car Brake Lathe
- 8 Electrical/Electronic Trainer
- 1 Subscription Online Service Information
- 18 Lab Computers (Stand-Alone Automotive Student Lab)
- 2 Vehicle Diagnostic Scan Tool
- 10 Electrical Multimeter
- 1 Evaporative Emission Tester

Automotive Collision Repair

- 18 Lab Computers (Stand-Alone Collision Student Lab)
- 1 Subscription Online Service Information
- 2 Vehicle Diagnostic Scan Tool
- 10 Electrical Multimeter

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