

CTE *catalog*

2022-2023

ARVIN HIGH SCHOOL



AG LIVESTOCK



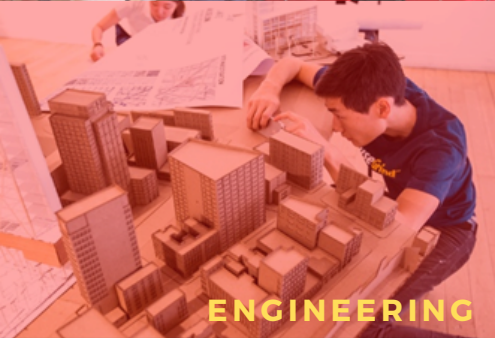
HEALTH



AG WELDING



JROTC



ENGINEERING



MANUFACTURING



AUTO TECH



VIDEO PRODUCTION



BUSINESS

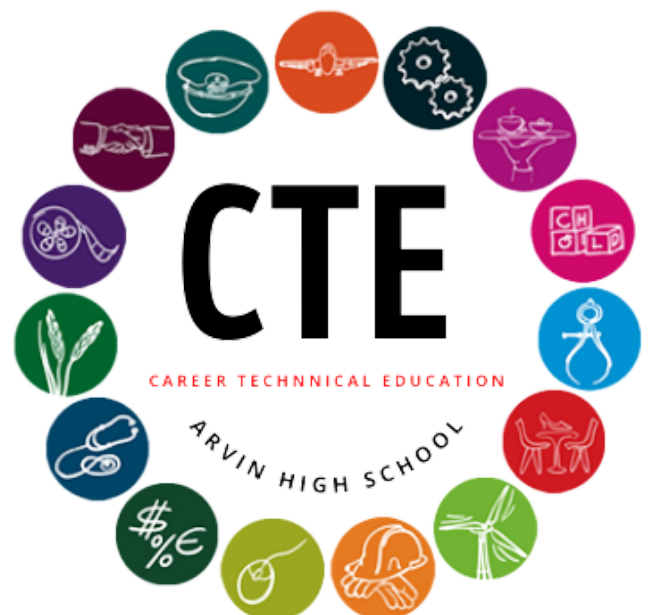


WOOD SHOP

YOUR FUTURE STARTS NOW

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Career and Technical Education



Let's Build Skills for LIFE

CTE prepares you for college and career success.

Build a solid base.

Learn technical skills, employability skills, and knowledge you need to succeed.



Add in hands-on learning that is essential in the real world.



Gain experience that leads to good jobs that pay well.



The Demand for CTE Students is **REAL.**

50,000,000 jobs

will open for CTE graduates between 2012 and 2022.



*Source: Bureau of Labor Statistics

Take a Closer LOOK at CTE



Have fun with it.
Enjoy learning while you explore a variety of interests.



See where it takes you.
Find your passion, make a difference, or just try something new!



Notice the relevance.
You'll discover that you can apply CTE skills and knowledge to everyday life!



The CTE Advantage

Not only does CTE give you the chance to develop **hands-on experience** that you can apply to a new job, but you can also earn **certifications**, which show proof of your skills (great for résumés) or may provide college credit!

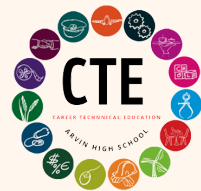
Yes! This Is CTE

Automotive Nutrition Coding Interior Design Teaching Cybersecurity Video Game Design Holistic Care **Engineering** Culinary IT Hospitality Agriculture Fashion HVAC Photography **Construction** Financial Literacy **STEM** Entrepreneurship Anatomy & Physiology Robotics Welding

Learn from industry experts

I am interested in. . .

ENVIRONMENTAL HORTICULTURE



The Environmental Horticulture program prepares students for careers in the nursery, landscaping, and floral industries.

Topics include plant identification, plant physiology, soil science, plant reproduction, nursery production, and floriculture, as well as landscaping design, installation, and maintenance.



OVERVIEW

What you'll learn in the course

- Practice how to classify and identify plants by order, family, genus, and species.
- Apply basic design principles to products and designs
- Handle, prepare, and arrange cut flowers appropriately.

Potential Careers

- Agriculture Inspector
- Business Controller
- Florist/Floral Designer
- Landscape Design/Architect
- Nursery/Greenhouse Manager
- Botanical Specialist

Potential Salary

Annual salary, as of May 2020 for Landscape Architect in the United States, was **\$67,950**.

Length of Program

Floral Design

- 10th grade
- 1 year

Horticulture Crop

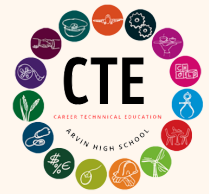
- 11th grade
- 1 year

Agriculture Sales/Marketing

- 12th grade
- 1 year

I am interested in. . .

AGRICULTURE LIVESTOCK



The Agriculture Livestock program will provide an overview and understanding of livestock management techniques including health, facilities, animal handling, nutrition, and reproduction. The course will cover the application of animal handling and management techniques for a variety of animals, including beef, goats and sheep.

Students will learn aspects of livestock production from identifying different breeds to production management and from facilities used for specific animals to nutritional requirements.



OVERVIEW

What you'll learn in the course

- Proper feeding and feeds for all livestock
- Overview and understanding of common routine livestock management techniques

Potential Careers

- Farm Manager
- Biologist
- Large Animal Veterinarian
- Crop Advisor
- AG Sales

Potential Salary

Annual salary, as of May 2020 for Farmer in the United States, was **\$73,060.**

Length of Program

Environmental Horticulture

- 9th grade
- 1 year

Intro to Animal Science

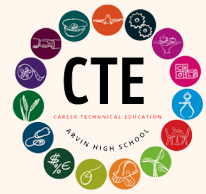
- 10th grade
- 1 year

Livestock

- 11th and 12th grade

I am interested in. . .

AGRICULTURE WELDING



The Agricultural Mechanics program prepares students for careers related to the construction, operation, and maintenance of equipment used by the agriculture industry.

Throughout the program, students will understand oxy-fuel cutting and welding.



OVERVIEW

What you'll learn in the course

- Explain the role of heat and oxidation in the cutting process.
- Properly set up, adjust, shut down, and maintain an oxy-fuel system.
- Flame-cut metal with an oxy-fuel cutting torch.
- Fusion-weld mild steel with and without filler rod by using oxy-fuel equipment

Potential Careers

- Welders
- Cutters
- Solderers
- Brazers

Potential Salary

Annual salary, as of May 2020 for Welders in the United States, was **\$47,010**

Length of Program

Agriculture Mechanic

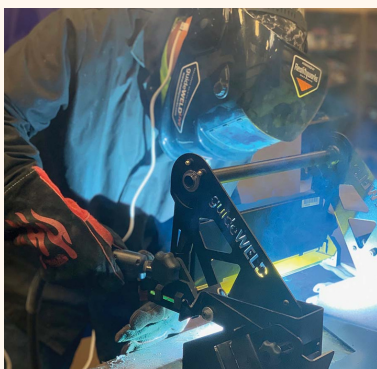
- 9th and 10th grade

Agriculture Welding

- 11th grade
- 1 year

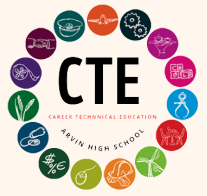
Agriculture Fabrication

- 12th grade
- 1 year



I am interested in. . .

AUTOMOTIVE TECHNOLOGY



Auto Tech prepares students for real world job experience. Not only will students learn about automotive systems, but they will be exposed to customer service, documentation, and ethical business practices.

Auto Tech is a hands-on course where students will not only participate in shop labs, but they will also have a full technician experience by completing jobs on real customer vehicles.



OVERVIEW

What you'll learn in the course

- Introduction to Automotive Technology
- Engine Technology, Fundamentals of Electricity
- Electronics
- Computer Control Technology
- Engine Troubleshooting and Performance
- Engine Service and Repair
- Brake System Technology and much more

Potential Careers

- Automotive Apprentice
- Specialized Technician
- Master Technician
- Shop Supervisor
- Service Manager
- Auto Parts Specialist
- Automotive Designer
- Automotive Engineer

Potential Salary

Annual salary, as of May 2020 for Automotive Service Technician in the United States, was **\$44,050**

Length of Program

Auto Tech 1

- 10th grade
- 1 year

Auto Tech 2

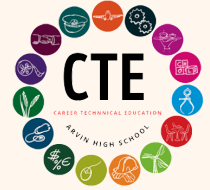
- 11th grade
- *pre-req. of C or better in Auto Tech 1
- 1 year

Auto Tech 3

- 12th grade
- *pre-req. of C or better in Auto Tech 2
- 1 year

I am interested in. . .

BUSINESS



In the Business Program, students learn business fundamentals, goal-setting, resource allocation, organizational structure and management techniques, economics, financial data, risk management, information technology, and supply chain management.

Complementary courses in understanding self-employment, marketing, and running a business Entrepreneurship class (Virtual Enterprise) in the Marketing, Sales, and Service sector.



OVERVIEW

What you'll learn in the course

- Accounting
- Entrepreneurship
- Marketing
- Website Development
- Sales

Potential Careers

- Advertisement Executive
- Business Manager
- CEO
- Accountant
- Marketing Manager
- Retail Buyer

Potential Salary

Annual salary, as of May 2020 for Marketing Manager in the United States, was **\$133,380**

Length of Program

Introduction to Business

- 10th grade
- 1 year

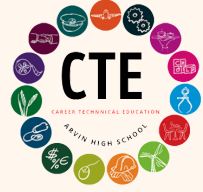
Personal Finance

- 11th grade
- 1 year

Virtual Enterprise/Entrepreneurship

- 12th grade
- 1 year

I am interested in. . .



CONSTRUCTION DESIGN/WOODSHOP

In the Construction Design/Woodshop program, students will be learning skills for entry level positions as mechanical helper, carpenter apprentice, cabinet maker and installer or woodworker or related fields.

Students will gain experience in planning, designing, layout, estimating, problem solving, and fabrication of wood products. The safe and correct use of tools, machines, and materials will be stressed at all times.



OVERVIEW

What you'll learn in the course

- Cabinetmaking
- Furniture making
- Creating blueprints
- Designing of wood products

Potential Careers

- Carpenter
- Woodworker
- Sales and kitchen designer
- Construction Project Engineer
- Construction manager

Potential Salary

Annual salary, as of May 2020 for Construction Manager in the United States, was **\$98,890**.

Length of Program

Woodshop 1

- 10th grade
- 1 year

Woodshop 2

- 11th grade
- 1 year

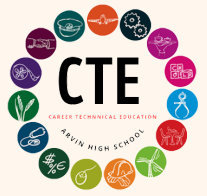
Woodshop 3

- 12th grade
- 1 year



I am interested in. . .

ENGINEERING



In the Engineering program, students will learn the engineering design process, orthographic and isometric mechanical drawings, working drawings for commercial and residential architecture.

Students will learn how to CAD design, 3D modeling & printing, programming, logic design, applying scientific principles, and the engineering design process.



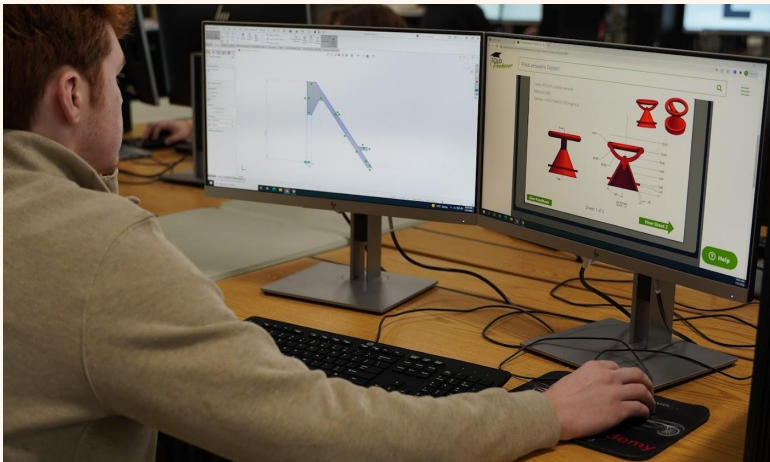
OVERVIEW

What you'll learn in the course

- 3D Modeling and Printing
- Two and three dimensional sketches and designs
- Preliminary building plans
- Architectural plans and drawings

Potential Careers

- Aerospace Engineer
- Computer Science Engineer
- Architecture
- Robotics



Potential Salary

Annual salary, as of May 2020 for Mechanical Engineer in the United States, was **\$95,300**.

Length of Program

Architecture and Design 1

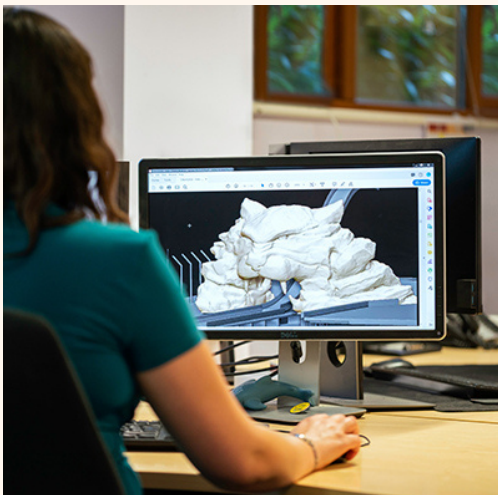
- 10th grade
- 1 year

Architecture and Design 2

- 11th grade
- Dual Enrolled
- 1 year

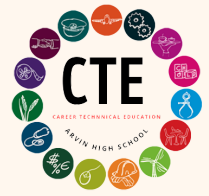
Engineering/Graphic Design

- 12th grade
- 1 year



I am interested in. . .

HEALTH



The Health career program introduces students to the variety career options available in the health care field. Students will learn basic anatomy and physiology, medical terminology and abbreviations, legal and ethical aspects of health care and communications. Students receive hands-on training using state-of-the-art hospital equipment.

As part of the program, students are encouraged to participate in the professional health club, called Health Occupation Students of America, where they participate in state leadership conferences and compete at the international competition.



OVERVIEW

What you'll learn in the course

- Vital Signs
- Language of Medicine
- First Aid/CPR

Potential Careers

- Certified Nursing Aide
- Clinical Medical Assistant
- Pharmacy Technician
- Dental Assistant
- Registered Nurse
- Physical Therapist
- Nurse Practitioner
- Medical Assistant
- Healthcare Management

Potential Salary

Annual salary, as of May 2020 for Nurse Practitioner in the United States, was **\$114,308**

Length of Program

Introduction to Medicine

- 10th grade
- 1 year

Medical Terminology

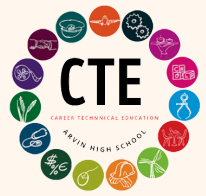
- 11th grade
- Dual Enrolled
- 1 year

Anatomy Physiology

- 12th grade
- 1 year

I am interested in. . .

JROTC



The JROTC program provides you with endless learning experiences that will leave you with a clear understanding of the importance of leadership. This program exposes you to the challenges that face fundamental principle of today's society.

It helps you plan for future endeavors by learning about topics such as personal independence, the importance of accountability, and professional development. No military obligation.



OVERVIEW

What you'll learn in the course

- Marksmanship
- Drill
- Color Guard
- Mentorship

Skills Acquired

- Time organization
- Responsibility
- Goal setting
- Teamwork
- Leadership
- Sense of community service
- Financial Management
- Health & Nutrition



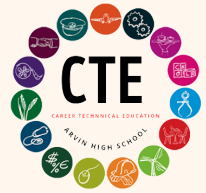
Length of Program

- | | |
|--------------|--------------|
| • JROTC 1 | • JROTC 2 |
| • 9th grade | • 10th grade |
| • 1 year | • 1 year |
| • JROTC 3 | • JROTC 4 |
| • 11th grade | • 12th grade |
| • 1 year | • 1 year |



I am interested in. . .

MANUFACTURING



In the Manufacturing course, students will develop skills in welding, machining, bench and sheet metal trades. Students will learn how to read and make blue prints as well as develop design skills.

Parts of this course will be centered around skills on the computer; other portions will be in the classroom and shop.



OVERVIEW

What you'll learn in the course

- Blue print reading
- Machine tooling and forming
- Welding and materials joining
- Product innovation and design

Potential Careers

- Certified Welder
- Industrial Production Welder
- CNC Machine Tool Programmer
- Industrial Engineering Technician
- Machinist

Potential Salary

Annual salary, as of May 2020 for Machinists in the United States, was **\$47,940**.

Length of Program

Manufacturing 1

- 10th grade
- 1 year

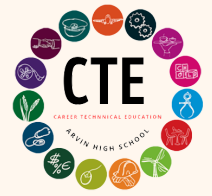
Manufacturing 2

- 11th grade
- Dual Enrolled
- 1 year

Manufacturing 3

- 12th grade
- 1 year

I am interested in. . .



VIDEO PRODUCTION

Video production students experience both the creative and technical instruction for aspiring video and film makers in the production of film, video, and new media projects for business and entertainment.

Video production is a project-based program, which guides students to achieve the standards in the visual arts and career technical training.



OVERVIEW

What you'll learn in the course

- Camera Operation & Shot Composition
- Writing for the Screen
- Pre-Production
- Lighting for Video
- Commercial, PSA, and Promo Video
- Picture and Sound Editing
- Newscast Production
- HD Video Recording/Editing

Potential Careers

- Videographer
- Television Producer
- Video Director
- Production Assistant
- Camera Operator
- Newscast Director
- News Reporter
- Production Coordinator

Potential Salary

Annual salary, as of May 2020 for Video Producer in the United States, was **\$63,636**

Length of Program

Video Production 1

- 10th grade
- 1 year

Video Production 2

- 11th grade
- *pre-req. of C or better in Video Production 1
- 1 year

Video Production 3

- 12th grade
- *pre-req. of C or better in Video Production 2
- 1 year