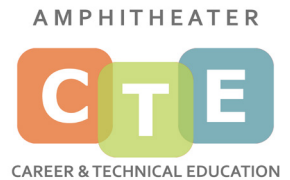


# Course Catalog

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## Career Pathways



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## College and Career Ready



[amphi.com/cte](http://amphi.com/cte)





# Agriscience

Grade: 9–12 3 Year Program offered at: AHS

Current trends point to a national shortage of college graduates in agricultural science.

- Develop skills working with various species of livestock.
- Acquire an understanding of plant and animal organisms, their tissues, cells, functions, interdependencies, and interactions with each other and the environment.
- Operate and manage aspects of livestock production, reproduction, health, feeds-feeding.
- Conduct research and study the agriculture industry, natural resource systems, agriculture mechanics, food sciences and more.
- Study nutritional requirements of animals and nutritive values of animal feed materials.

## CAREER FOCUS:

Students will be prepared for entry-level jobs in the agriculture industry and to study agriculture science at a technical school or 2-year or 4-year college or university. Students may acquire industry certifications during the program. Career examples include Livestock Producer, Veterinary's Assistant or Technician, Agriculture Educator, Livestock or Food Inspector, Veterinarian, Animal Scientist, or Biologist.

## COURSES MUST BE TAKEN IN SEQUENCE:

Agriscience I (Year 1) CTS195/JTS195

Agriscience II(Year 2) CTS261/JTS261

Animal Science II (Year 3) CTS197/JTS197

Veterinary Science (Year 4) CTS198/JTS198

Agriscience SOE CTS199 (Required in conjunction with another Agriscience class)

Agriscience Internship (Optional) CTS263









# Architectural Drafting & Design

Grade: 9–12 2 Year Program offered at: CDO

There is a high demand for skilled drafters and plenty of professional growth opportunities in today's market.

- Learn techniques of Sketching, Drafting, Computer Aided Drafting (CAD) programs, Layout, Design, Blueprint Interpretation, and all phases of drawing house plans.
- Instruction in Construction and Structural Design, Architectural and Engineering Drawings, Problem Solving, and 3D Architectural Rendering.
- Build 3D house models from wood and foam board along with designing and constructing various projects and other real-life projects.
- Students can demonstrate their skills in regional, state, and national SkillsUSA competitions.

## CAREER FOCUS:

Students will be prepared for immediate employment in entry-level positions in the drafting industry and to continue to study at a technical school or 2-year or 4-year college or university. Students may acquire industry certifications during the program. Career examples include Architect, Engineer, Interior Designer, Plans Examiner, General Contractor, Construction Manager, and Building/Safety Inspector.

## COURSES MUST BE TAKEN IN SEQUENCE:

Architectural Drafting I (Year 1) CTS144/JTS144

Architectural Drafting II (Year 2) CTS145/JTS145

Architectural Drafting III (Optional Year 3) (6 credits from PCC available) CTS146/JTS146

Architectural Drafting IV (Optional Year 4) CTS148/JTS148

Architectural Drafting Internship (Optional) CTS147







# Automotive Diesel Technologies

Grade: 9–12 3 Year Program offered at: AHS

Automotive diesel repair skills will always be in demand across several industries.

- Learn techniques and skills of basic automotive care in the first year of the program, including tire mounting, tire balancing, cooling systems, brake replacement and oil changes.
- Learn to use advanced computer diagnostics to troubleshoot and repair modern Auto-Diesel systems.
- Perform repair, service and preventive maintenance operations on Auto-Diesel engines, Chassis, and powertrains.
- Learn maintenance and repair of systems on medium-duty and heavy-duty equipment.
- Students can demonstrate their skills in regional, state, and national SkillsUSA competitions.

## CAREER FOCUS:

Students will be prepared for immediate employment in entry-level positions such as Lube Technician and Basic Technician and to continue to study at a technical school or 2-year or 4-year college or university. Students may acquire industry certifications during the program. Career examples include Diesel Technician, Automotive Technician, General Maintenance Technician, Heavy Vehicle and Mobile Equipment Service Technician, and Parts and Service Equipment Sales.

## COURSES MUST BE TAKEN IN SEQUENCE:

Automotive Diesel I (Year 1) CTS210/JTS210

Automotive Diesel II (Year 2) CTS211/JTS211

Automotive Diesel III (Year 3) CTS212/JTS212

Automotive Diesel IV (Optional Year 4) CTS213/JTS160

Automotive Diesel Internship (Optional) CTS215







# Automotive Technologies

Grade: 9-12 3 Year Program offered at: CDO

This high-tech career is always in demand and cannot be outsourced overseas.

- Learn all basic Automotive techniques and skills, including tire mounting, tire balancing, cooling systems flushes, brake replacement and oil changes.
- Receive instruction on basic and advanced engine fundamentals.
- Demonstrate understanding of electrical circuitry in transportation applications.
- Work-based learning instruction to advance knowledge in suspension and brakes.
- Analysis of engine performance and drivetrain.
- Students can demonstrate their skills in regional, state, and national SkillsUSA competitions.

## CAREER FOCUS:

Students will be prepared for employment in entry-level positions in the Automotive industry. Students are prepared for continued study at a technical school or 2-year or 4-year college or university. Students will acquire industry certifications during the program. Career examples include Auto Service Technician, Mechanic, General Maintenance Technician, and Parts Salesperson.

## COURSES MUST BE TAKEN IN SEQUENCE:

Automotive Technology I (Year 1) CTS161/JTS161

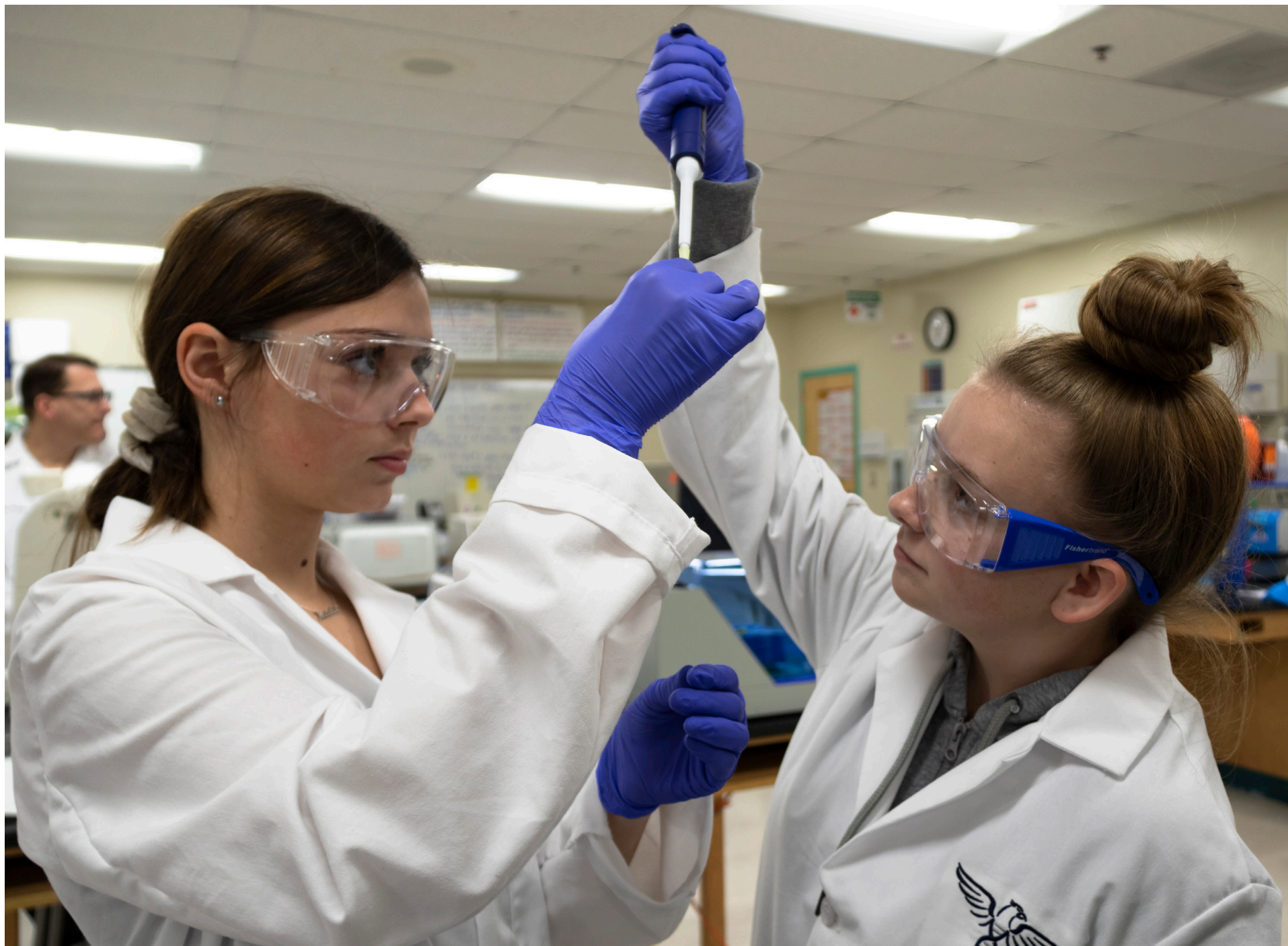
Automotive Technology II (Year 2) CTS162/JTS162

Automotive Technology III (Year 3) CTS163/JTS163 (9 credits from PCC available for Year 3)

Automotive Technology IV (Optional Year 4) CTS160/JTS160

Automotive Technology Internship (Optional) CTS164







# Bioscience

Grade: 9–12 2 Year Program offered at: CDO IRHS

Be part of one of the most in demand fields of the 21st century.

- Learn how the world of bioscience is used in the medical, agricultural, and food industries.
- Work with scientific instruments that are commonly found in a research laboratory.
- Research genetic characteristics or expressions, isolate, analyze, and synthesize proteins, enzymes, DNA, and other molecules.
- Develop skills making common laboratory solutions and research the effects of substances, such as drugs, hormones, bacterial, food plant and cell cultures on tissues.
- Explore bioscience careers, history and applications of recombinant DNA technology.
- Program will culminate with students conducting independent research projects that will be presented at regional science competitions.

## CAREER FOCUS:

Students will be prepared for college-level life science classes and employment in the Allied Health industries such as, Lab Technician, Cell Biologist, and Pharmacologist. Career examples include Physicians, Nurses, Nurse Practitioners, Molecular Biologist, Laboratory and Crime Lab Technician, Biochemist, Biomedical Engineer, Nuclear Medicine Physicians, Microbiologist, Bioinformatics Scientist, Zoologist, or Pharmaceutical Salesperson.

## COURSES MUST BE TAKEN IN SEQUENCE:

Bioscience I (Year 1, weighted grade) \* CTS137/JTS137

Bioscience II (Year 2, weighted grade) \* CTS139/

JTS139 Bioscience III (Optional Year 3) CTS136/

JTS136 Bioscience Internship (Optional) CTS138



\*Students enrolled in Bioscience I and II can be dual enrolled with the University of Arizona's Molecular and Cellular Biology 101 and 102, respectively, at the University of Arizona with three transferable elective credits fully transferable to the University of Arizona by paying tuition.





# Construction Technology

Grade: 9-12 2 Year Program offered at: CDO

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Be part of an exciting and ever-changing career that combines creativity and technology.

- Learn to safely use Hand Tools and Power Tools, and about Staining/Lacquering, Estimating, Carpentry, Electrical, Masonry, Plumbing, Sheet Metal, and Welding.
- Gain experience in reading plans and developing skills through hands-on learning and application.
- Complete small and large construction projects including playhouses, picnic tables, converting a mobile container to a home, building a camping trailer.
- Students can demonstrate their skills in regional, state, and national SkillsUSA competitions.

## CAREER FOCUS:

Students will be prepared for immediate employment in entry-level positions in the construction industry and to continue to study at a technical school or 2-year or 4-year college or university. Students may acquire industry certifications during the program. Career examples include Electrician, Mason, Carpenter, Plumber, Engineer, Construction Manager, and Welder.

## COURSES MUST BE TAKEN IN SEQUENCE:

Construction Technology I (Year 1) CTS165/JTS165

Construction Technology II (Year 2) CTS166/JTS166

Construction Technology III (Optional Year 3) CTS167/JTS167 (16 credits from PCC available for Year 3)

Construction Technology IV (Optional Year 4) CTS169/JTS169

Construction Technology Internship (Optional) CTS168







# Culinary Arts

Grade: 9–12 2 Year Program offered at: CDO IRHS

The universal language is food, and communities are better for the conversation.

- Places an emphasis on teamwork and interpersonal skills, academics, and technical skills, and requires adherence to dress, food sanitation, and safety codes.
- Certifications and Endorsements: ServSafe® Food Management Certification (optional certification for students) and ACF NOCTI Level 2
- Curriculum includes kitchen basics and Culinary fundamentals such as Safety and Sanitation, Basic food preparation, Culinary nutrition, Introduction to baking, Workplace safety, Hospitality management, Front-and back-of-house operations, Introduction to food cost and control, Culinary math, Menu writing, Purchasing and inventory control and Customer service.
- Curriculum also includes commencement level-math and English Language Arts.
- All students are given the opportunity to participate in a work-based learning experience that includes an internship, which exposes them to real-world business operations and specific job duties related to culinary careers that connect to the skills and knowledge learned in the CTE classroom.

## CAREER FOCUS:

Students will be prepared for entry-level employment in the field of Culinary Arts and study at a technical school or 2-year or 4-year college or university. Students completing the program successfully qualify to work as: Prep Cook, Line Cook, Food Server, or Banquet/Catering staff. Employment opportunities requiring further education: Chef de Cuisine, Executive Chef, Pastry Chef, Food and Beverage Manager, Maitre d'.

## COURSES MUST BE TAKEN IN SEQUENCE:

Culinary Arts I (Year 1) CTS112/JTS112

Culinary Arts II (Year 2) CTS113/JTS113

Culinary Arts III (Optional Year 3) CTS114/JTS114 (5 credits from PCC available for Year 3)

Culinary Arts IV (Optional Year 4) CTS115/JTS115 (6 credits from PCC available for Year 4)

Culinary Arts Internship (Optional) CTS116







# Digital Photography

Grade: 9–12 2 Year Program offered at: AHS CDO IRHS

Be part of one of the largest industries in the world using both creativity and technology.

- Create innovative photographs using professional cameras, computers, Adobe Photoshop and Lightroom (image editing software), studio lighting, and large format printers.
- Develop and present a professional portfolio for review, critique, and publication.
- Experience working for clients to design, produce, and publish photos.
- Students may have an opportunity to earn Adobe Certified Associate credential in Photoshop.
- Third year students run and show in the Noble Street Gallery, as well as produce gift shop items (CDO).

## CAREER FOCUS:

Students will be prepared for immediate employment in entry-level jobs such as Photography Studio Assistant and Portrait Photographer and to continue to study photography at a 2-year or 4-year college or university. Career examples include Portrait and Fashion Photographer, Food Photographer, Fine Art Photographer, Art Director, Gallery Owner, and Commercial/Advertising Photographer.

## COURSES MUST BE TAKEN IN SEQUENCE:

Introduction to Photography (Year 1) CTS155/JTS155

Photography (Year 2) CTS156/JTS156

Advanced Photography (Optional Year 3) CTS157/JTS157

Digital Photo Internship (Optional) CTS158





# Early Childhood Education

Grade: 9–12 2 Year Program offered at: AHS CDO

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Make a difference, change lives, and help the world become a much better place.

- Learn about the continuum of physical, sensory, social, emotional, cognitive, language, and literacy development of young children.
- Design activities and establish practices promoting young children's overall development.
- Master effective employability skills and professionalism in early childhood education.
- Create and teach K-3 lessons at local elementary schools. (AHS)
- Create, research, and provide developmentally appropriate learning materials and activities within our on-site preschool that make the activities fun and hands-on. (CDO)
- Obtain Certifications: First Aid/CPR, Food Handlers, Paraprofessionals.

## CAREER FOCUS:

Students will be prepared for immediate employment in entry-level jobs such as a Childcare Assistant, Nanny, or Preschool Lead Teacher and to continue to study in a 2-year or 4-year college or university. Career examples include Elementary/Preschool Teacher/Director (preschool thru grade 3), Speech Pathologist, Pediatrician, Nurse, Child Psychologist, Social Worker, and School Counselor.

\*Mantoux TB Skin Test Required for all courses. (CDO)

## COURSES MUST BE TAKEN IN SEQUENCE:

Early Childhood Education (Year 1)\* CTS190/JTS190

Early Childhood Education II (Year 2)\* CTS191/JTS191

Early Childhood Education III (Optional Year 3)\* CTS192/JTS192

Early Childhood Education IV (Optional Year 4)\* CTS193/JTS193

Early Childhood Education Internship (Optional)\* CTS194









# Engineering

Grade: 9–12 3 Year Program offered at: CDO IRHS

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Build an airplane, design the longest bridge, or change how we deliver food to the world.

- Hands-on projects using the engineering design process, creative problem solving, and collaboration.
- Introduction to a wide variety of engineering careers such as mechanical, software, architectural, civil/structural, electrical, chemical, environmental, and mining.
- Learn computer modeling and solve real-world problems by applying math and physics.

## CAREER FOCUS:

Students will be prepared for employment in entry-level jobs as a Technician Assistant, and to study engineering or related fields at a 2-year or 4-year college or university. Career examples include Engineering Technician or Engineer in fields such as Biomedical, Civil, Computer Software, Electrical, Environmental, Mechanical, and Robotics/Automation.

## COURSES MUST BE TAKEN IN SEQUENCE:

Algebra II (Year 1)

Introduction to Engineering Design (Year 2) CTS132/JTS177

Engineering 102 (Year 2 or Year 3, weighted grade)\* SCI013/JTS129

Engineering Internship (Optional) CTS130

\*Prerequisites: Algebra I must be completed prior to Introduction to Engineering Design. Prerequisites for Engineering 102: Successful completion of Introduction to Engineering Design and concurrent enrollment in Pre-Calculus or beyond. Engineering 102 students can be dual enrolled with the University of Arizona's Engineering 102 for 3 credits, fully transferable to the University of Arizona by paying tuition.







# Film & TV Production

Grade: 9-12 2 Year Program offered at: AHS IRHS

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Be part of one of this huge industry using both creativity and technology.

- Create movies, advertisements, and incredible special effects using professional software.
- Watch and discuss film, television, and advertising as art and entertainment, and their place in society.
- Star or work behind the scenes on the school's weekly announcements show.
- Select the appropriate equipment, from the type of lens to the appropriate lighting.
- Operate computer editing systems, video switching equipment, and digital video effects units to produce a final video product.

## CAREER FOCUS:

Students will be prepared for immediate employment in jobs such as Professional Event Videography and internships, and to continue to study at a technical school or 2-year or 4-year college or university.

Students may acquire industry certifications during the program. Career examples include Film or Video Editor, Radio or Television Broadcaster, Sound Engineer, Sound/Video Technician, and Broadcast Technician.

## COURSES MUST BE TAKEN IN SEQUENCE:

Intro to Film/TV Video (Year 1) CTS153/JTS153

TV/Video Production (Year 2) CTS176/JTS176

Advanced TV/Video Production (Optional Year 3) CTS178/JTS178

TV/Video Production Internship (Optional) CTS177





# Graphic Design

Grade: 9–12 2 Year Program offered at: IRHS

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If they can't see it, they will never know why it's the best. Prepare to be part of this growing industry.

- Produce and design a high-quality artwork using professional graphic design, layout, and photo editing software (Adobe Photoshop, InDesign, and Illustrator).
- Run a full-scale design firm and create advertising campaigns.
- Usher a product from design to production.
- Create product packaging and learn screen printing.

## CAREER FOCUS:

Students will be prepared for immediate employment in entry-level jobs in the photography and graphic design industry and to study photography, graphic design, or journalism at a 2-year or 4-year college or university.

Career examples include Graphic Designer, Advertising Manager, Magazine Editor, Multi-media Artist, Social Media Specialist, Art Director, Public Relations, Marketing Specialist and Director, Web Developer, and Software Applications Developer.

## COURSES MUST BE TAKEN IN SEQUENCE:

Intro to Graphic Design (Year 1) CTS154/JTS154

Graphic Design II (Year 2) CTS151/JTS151

Graphic Design III (Optional Year 3) CTS152/JTS152

Graphic Design IV (Optional Year 4) CTS226/JTS226

Graphic Design Internship (Optional) CTS216





# Graphic Design YK

Grade: 9–12 2 Year Program offered at: CDO

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Yearbooks are forever, and last longer than memories. Learn every aspect of the publication industry.

- Photograph at school events, interview students and teachers, and write stories and captions for yearbook photographs.
- Produce and design a high-quality yearbook using professional graphic design, layout, and photo editing software (Adobe Photoshop, InDesign).
- Manage the yearbook staff through leadership positions (Editor-in-Chief, Editor, Story Editor, Photo Editor).
- Promote the yearbook by creating advertising campaigns (posters, events, announcements).

## CAREER FOCUS:

Students will be prepared for immediate employment in entry-level jobs in the photography and graphic design industry and to study photography, graphic design, or journalism at a 2-year or 4-year college or university. Career examples include Photojournalist, Graphic Designer, and Magazine Editor.

## COURSES MUST BE TAKEN IN SEQUENCE:

Graphic Design I YK (Year 1) CTS223/JTS223

Graphic Design II YK (Year 2) CTS224/JTS224

Graphic Design III YK (Optional Year 3) CTS225/JTS225

Graphic Design Internship (Optional) CTS216





# Music & Audio Production

Grade: 9–12 2 Year Program offered at: IRHS

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Music and sound can be made, but it has to be captured and mixed to be heard and remembered.

- Intensive study of the history of sound recording and hands-on experience with studio equipment.
- Students will apply technical knowledge and skills to the production of sound recordings as finished products or as components of film/video, broadcast, live, or mixed media production.
- In-depth practical understanding of the three phases of the media creation process; pre-production, production, and post-production.

## CAREER FOCUS:

Students will be prepared for immediate employment in entry-level jobs in the film, broadcasting, and music production industries or music and audio production at a 2-year or 4-year college or university. Career examples include music producer, live sound engineer, recording engineer, mixing engineer, dialogue editor, field recordist, broadcast engineer, and sound engineer.

## COURSES MUST BE TAKEN IN SEQUENCE:

Music and Audio Production I (Year 1) CTS240/JTS240

Music and Audio Production II (Year 2) CTS241/JTS241

Music and Audio Production III (Optional Year 3) CTS242/JTS242

Music and Audio Internship (Optional) CTS243/JTS243





# Nursing Services LNA/Health Care Foundations

Grade: 11–12 2 Year Program offered at: IRHS

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Become part of one of the fastest growing industries in the world.

- Prepare students to perform routine nursing-related services for patients in hospitals or long-term care facilities under the training and supervision of a Licensed Practical or Registered Nurse.
- Examine the healthcare community and roles and responsibilities of the healthcare team.
- Demonstrate ethical and legal conduct, while applying standard precautions and infection control measures.
- Apply principles of body mechanics, transporting, transferring, and basic emergency care.
- Learn examination of human systems for common conditions, disorders, and care, measure and record vital signs while facilitating activities related to examination, and diagnostic testing.
- Learn to identify behavioral health and social services needs and assist in care for the dying and their families.
- Gain industry credentials such as CAN, LNA, OSHA 10 Health Care, ServSafe® Food Management Certification (optional certification for students) ACF NOCTI Level 2.

## CAREER FOCUS:

Students will be prepared for employment in entry-level jobs and further training at 2-year or 4-year college or university. Career examples include: Certified Nursing Assistant (CNA), Licensed Nursing Assistant (LNA), Patient Care Technician, Patient Care Assistant, and Caregiver.

## COURSES MUST BE TAKEN IN SEQUENCE:

Healthcare Foundations A/B (Year 1) CTS300A/B/JTS300A/B

### Semester I

Nursing Services I (Year 2) CTS301/JTS301

Nursing Services I Clinical Lab (Year 2) CTS301CL/JTS301CL

Nursing Services I Skills Lab (Year 2) CTS301SL/JTS301SL

### Semester II

Nursing Services II (Year 2) CTS302/JTS302

Nursing Services II Clinical Lab (Year 2) CTS302CL/JTS302CL

Nursing Services II Skills Lab (Year 2) CTS302SL/JTS302SL

Nursing Services Internship (Optional) CTS303







# Photo Design YK

Grade: 9–12 2 Year Program offered at: AHS IRHS

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Yearbooks are forever, and last longer than memories. Learn every aspect of the publication industry.

- Photograph at school events, interview students and teachers, and write stories and captions for yearbook photographs.
- Produce and design a high-quality yearbook using professional graphic design, layout, and photo editing software (Adobe Photoshop, InDesign).
- Manage the yearbook staff through leadership positions (Editor-in-Chief, Editor, Story Editor, Photo Editor).
- Promote the yearbook by creating advertising campaigns (posters, events, announcements).

## CAREER FOCUS:

Students will be prepared for immediate employment in entry-level jobs in the photography and graphic design industry and to study photography, graphic design, or journalism at a 2-year or 4-year college or university. Career examples include Photojournalist, Graphic Designer, and Magazine Editor.

## COURSES MUST BE TAKEN IN SEQUENCE:

Photo Design I YK (Year 1) CTS220/JTS220

Photo Design II YK (Year 2) CTS221/JTS221

Photo Design III YK (Optional Year 3) CTS222/JTS222

Digital Photo Internship (Optional) CTS158









# Software & App Design

Grade: 9–12 2 Year Program offered at: AHS CDO IRHS

Combine your creative and technology skills to prepare for one of the fastest growing industries.

- Develop skills that are adaptable across all careers, disciplines, and pathways - including medicine, engineering, and visual and performing arts. Having a fundamental understanding of computer science is critical in today's global economy.
- Classes mirror the collaborative & creative culture of the software & app design industry, engaging in problem-solving, teamwork, and user-centered design.
- Develop websites, apps, and other projects based on personal interests and working with community partners.
- Dual Enrollment and College Credit opportunities available.

## CAREER FOCUS:

Students will be prepared for immediate employment in entry-level positions in the software development industry and to continue to study software development at a technical school or 2-year or 4-year college or university.

Students may acquire industry certifications during the program. Career examples include Computer Programmer, Software Developer, Web Developer, Database Administrator, Computer Support Specialist.

## COURSES MUST BE TAKEN IN SEQUENCE:

Software & App Design I (Year 1) CTS203/JTS203

Advanced Placement Computer Science Principles (Year 1, weighted grade) CTS149/JTS120

Software & App Design II (Year 2) CTS179/JTS179

Advanced Placement Computer Science A (Year 2, weighted grade) CTS182/JTS182

Software & App Design Internship (Optional Year 3 & 4) CTS185







# Sports Medicine/Health Care Foundations

Grade: 9-12 2 Year Program offered at: AHS CDO IRHS

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Become part of the medical and sports world at once.

- Engage through motion to learn, evaluate, and apply understanding of musculoskeletal, and human anatomy as well as associated medical terminology.
- Explore and investigate body systems, anatomy, perform and acquire a certification in First Aid/CPR, EMR, and taping.
- Work side-by-side with an Athletic Trainer during after school athletic practices and competitions.
- Refine hands-on skills and enhance professional knowledge while using critical and logical thought to learn how to evaluate athletic-related injuries.
- Exciting internship opportunities to support athletic teams with your trainer and other industry professionals.

## CAREER FOCUS:

Students will be prepared for possible immediate employment working in a medical office, physical therapy clinic, or hospital in an administrative capacity and to continue to study at a 2-year or 4-year college or university. Career examples include Sports Medicine Physician, Athletic Trainer, Physical Therapist, or Occupational Therapist.

## COURSES MUST BE TAKEN IN SEQUENCE:

Sports Medicine I/Healthcare Foundations (Year 1) CTS140/JTS140

Sports Medicine II (Year 2) CTS141/JTS141

Sports Medicine III (Optional Year 3) CTS143/JTS143

Sports Medicine Internship (Optional) CTS142









# Technical Theater

Grade: 9–12 2 Year Program offered at: AHS CDO IRHS

Run sets, lights, costumes, props and make magic with lighting.

- Learn the fundamentals of how to put on a theater production.
- Operate the school's digital stage equipment.
- Design and build elements of scenery, props, costumes, sound, stage makeup, and lighting for the various performances.
- Run various shows throughout the year in both the main stage and blackbox.

## CAREER FOCUS:

Students will be prepared for immediate employment in entry-level jobs and to pursue training and education at a 2-year or 4- year college or university. Career examples include Sound or Lighting Technician, Scenic Artist, Costume Designer, Set Designer, or Sound Engineering Technician.

## COURSES MUST BE TAKEN IN SEQUENCE:

Technical Theater I (Year 1) CTS170/JTS170

Technical Theater II (Year 2) CTS171/JTS171

Technical Theater III (Optional Year 3) CTS173/JTS173

Technical Theater IV (Optional Year 4) CTS174/JTS174

Technical Theater Internship (Optional) CTS172





# Welding

Grade: 9–12 2 Year Program Course offered at: AHS

Learn how to heat metal for a wide range of industries in an industry always in need.

- Apply technical knowledge and skills to join or cut metal surfaces.
- Specialized instruction in arc welding, resistance welding, brazing and soldering, cutting, high-energy beam welding and cutting, solid state welding, ferrous and non-ferrous materials, oxidation-reduction reactions, welding metallurgy, welding processes and heat treating, structural design, safety, and applicable codes and standards.

## CAREER FOCUS:

Students will be prepared for immediate employment in entry-level positions in the welding industry and to study welding or engineering at a technical school or 2-year or 4-year college or university. Students may acquire industry certifications during the program. Career examples include Welder, Fabricator, Finishing Technician, Welder-Fitter, Mig Welder, Robot Operator, Braze Operator, Machine Operator, or Spot Welder.

## COURSES MUST BE TAKEN IN SEQUENCE:

Welding Technologies I (Year 1) CTS236/JTS236

Welding Technologies II (Year 2) CTS237/JTS237

Welding Technologies Internship (Optional Year 3) CTS238



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Amphitheater Unified School District does not discriminate on the basis of race, color, religion/religious beliefs, gender, sex, age, national origin, sexual orientation, creed, citizenship status, marital status, political beliefs/affiliation, disability, home language, family, social or cultural background in its programs or activities and provides equal access to the Boy Scouts and other designated youth groups. Inquiries regarding the District's non-discrimination policies are handled at 701 W. Wetmore Road, Tucson, Arizona 85705 by David Rucker, Equity & Safety Compliance Officer, (520) 696-5164, drucker@amphi.com, or Kristin McGraw, Executive Director of Student Services, (520) 696-5230, kmcgraw@amphi.com.