

Chandler High

Career and Technical Education Department



International Baccalaureate CTE Certificate Programs

- Agriculture
- Automotive
- Computer Science, Engineering
- Culinary
- Early Childhood
- Sports Medicine
- Film/TV Multimedia
- Graphic Design
- Marketing
- Woods

Agriculture Program

Entry Level Classes

- Plants, Animals, and Leadership
- Applied Biological Systems
 - (Biology Credit)

Upper Level Classes

- Agriscience 1
- Agriscience 2
- Ag Mechanics/Ag Engineering
- Ag Business Management (Economics)



Agriculture Program

Credits other than elective

- Applied Biological Systems= Biology credit
- Agriscience 1=½ lab science and ½ elective credit
- Agriscience 2=½ lab science and ½ elective credit
- Agriculture Business Management=Economics credit

Certificates available

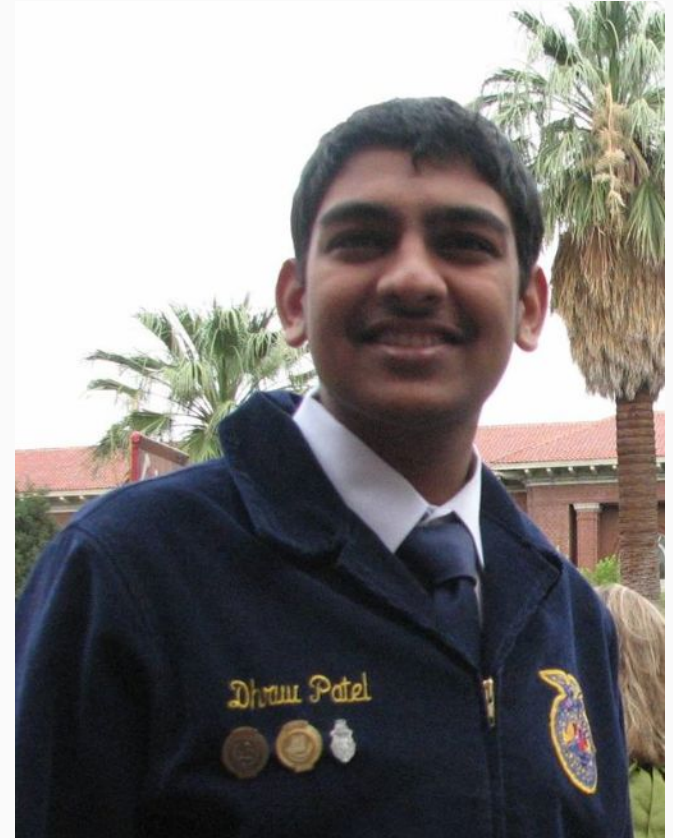
- Osha 10
- Arizona Agricultural Skills and Competency Certification

Agriculture Program

Career options

Plant Sciences: Biotechnology
Engineer

Dhruv Patel- Plant Biology Master
at UC Berkley & Plant Sciences
at Cornell University



Agriculture Program

Career options

Agricultural Business: Crop Specialist Manager at Wilbur-Ellis

Cash Veo



Agriculture Program

Career options

Plant Sciences:

Chemical Engineer for Plant
Science company, Heliae
(microalgae producer).

Riley Lewis-Microbiology at UofA



Agriculture Program

Career options

Plant Sciences: Landscape Designer and owner of
landscape installation company

Michelle McDowell



Agriculture Program

Career options

Agricultural Mechanics:

Welder, Electrician, Plumbing, Mechanical Sales,
GPS Technician on Drones or tractors, Irrigation
Specialist, etc.

Agriculture Program

Career options

Animal Sciences: State Veterinarian Assistant &
USDA Meat Inspector

Jessica Veo



Agriculture Program

Career options

Animal Sciences: Large Animal
Veterinarian

Lisa Kendall-Wallace -
Washington State



Agriculture Program

Dual Enrollment with MCC

- Plants, Animals, and Leadership
- Applied Biological Systems
- Agriscience 1
- Agriscience 2
- Ag Mechanics/Ag Engineering
- Ag Business Management



Agriculture Program

FFA Highlights

- 250 FFA members
- ALL members leading our meetings
- Community Service
 - 250 Agriculture in the Classroom lessons per year to elementary schools
 - Assists with elementary gardens
 - Tumbleweed Park farm and gardens
- Supervised Agricultural Experience
- Used as a vehicle to learn leadership as an officer or facility manager





Agriculture Program

Selling Points

- Travel to Indianapolis for National Convention
- Agricultural tours to Yuma & California (Disneyland)
- Day trips to Farm at Tumbleweed Park during block days
- Agriculture Projects can turn into a business and money
- Community Service and Leadership opportunities for scholarships
- Chicken processing is OPTIONAL
- Finding a students niche, agriculture is very diverse
- Family atmosphere and Welcoming to all, feeling of belonging

Agriculture Program

- Career Development Events
 - Veterinarian Science
 - Ag. Farm Business Management
 - Ag. Engineering/Mechanics
 - Horse Evaluation
 - Food Science
 - Dairy Foods
 - Meat Evaluation
 - Landscape Design
 - Floriculture



Agriculture Program

- Leadership Development Events
 - Parliamentary Procedure
 - Conduct of Meetings
 - Creed
 - Ag. Communications
 - Ag. Issues
 - Prepared Public Speaking
 - Extemporaneous Speaking
 - Job Interview



Culinary Program

Entry Level Classes

- Culinary 1

Upper Level Classes

- Culinary 2
- Culinary 3



Culinary Program

Career Options

- Chef/Sous Chef, Station Chefs, Pastry Chef, line & prep cooks
- Cake decorator
- Health Inspector
- Food service director
- Dietician/ Nutritionist , Diet Technician
- Hospitality Industry

Culinary Program

Dual Enrollment Classes

- Culinary 1, 2, and 3

Certification

- Culinary 1 - Food Handlers Certificate
- Culinary 2 - CTE State Assessment Certificate
- Culinary 3 - ServSafe Manager Certificate



Culinary Program

CTSO Highlights

- Fall leadership Experience
- FCCLA State competition in Tucson
- Monthly club activities



Culinary Program

Selling Points

- Cooking labs every week, very hands on class to help students prepare for the food service industry.
- Culinary 2 and 3 get to be a part of FCCLA Culinary club. Opportunities throughout the year for guest speakers, field trips, and catering events.
- GCU Hospitality tour - students get to tour the campus and learn about their hospitality program



Culinary Program

- Scottsdale Community College - work one on one with the chefs, prepare lunch
- Hospitality Career Day - students get to meet professionals in the industry and learn about the different careers in the hospitality industry
- Various catering events (NHS Volunteer hours)



Woods Program

Entry Level Classes

- Woods 1

Upper Level Classes

- Woods 2



Woods Program

Career Options

- · Area Supervision, Assembly, Design
- · CNC Operation, CNC Programming
- · Drafting, Engineering, Estimating, Finishing
- · General Management/Ownership, Machine Operation
- · Plant Management, Project Management
- · Production Management, Sales

Woods Program

Certification

- OSHA 10 certification
 - Paid for by CTE and part of the Woods 2 class.



Woods Program

CTSO Highlights

- Weekly Woods Club
- Chandler Innovation Fair
- Skills USA Cabinetmaking competition



Woods Program

Selling Points

- Pitt State University- Degree in Architectural Manufacturing Management and Technology
- Mesa Community College Classes use facility, outstanding facility



Early Childhood Program

Entry Level Classes

- Early Childhood 1



Upper Level Classes

- Early Childhood 2
- Early Childhood Professions 1
- Early Childhood Professions 2



Early Childhood Program

Dual Enrollment Classes & IB Careers

- Early Childhood Education 1
- Early Childhood Education 2



Certification

- **Child Development Associates & Paraprofessional Certificate**
- **First Aid & CPR**

Early Childhood Program

Career Options

- Teacher
- Pediatrician, Social Worker,
- Neonatal Nurse, Speech Therapist,
- Toy Designer, Children's Author,
- Cartoonist, Fashion Design (children's),
- Psychologist



Early Childhood Program

CTSO Highlights

- **Lead4 Change National Program Recipient**
 - **1 of 24 National Lead for Change School**
- **AZ FCCLA Gold Chapter**
 - **State & National Competitions**
 - **Scholarships & Awards**
- **Fiesta Bowl Program Grant Recipient**



Early Childhood Program

Selling Points

- **Hands on projects**
 - **50-75% of**
- **Interactive learning**
- **Fun and play**
- **Leads to a jobs**
 - **Resumes & Job Interviewing**
- **Field Trips:**
 - **AZ Science Center, Children's Museum & Zoo**
- **Community Service**



Early Childhood Program

Travel

FCCLA Leadership Camp (Flagstaff)

FLEX Conference (Sun's Arena)

FCCLA Career Exploration & Cultural Trip (NYC)

State Leadership Conference (Tucson)

National Conference (Nashville, TN)



Graphic Design Program

Entry Level Classes

- Graphics 1

Upper Level Classes

- Graphics 2



Graphic Design Program

Certification

- Adobe Certifications - Adobe Illustrator, Adobe Photoshop, Adobe InDesign, Adobe After Effects



Graphic Design Program

Career Options

- Marketing Firm - work with advertisers
- Television graphic designer
- Youtube
- Website Developer
- Video Gaming Graphics



Graphic Design Program

CTSO Highlights

- Created logo and all marketing materials for Chandler Innovation Fair and other organizations.



Graphic Design Program

Selling Points

- Tons of hands on experience
- Great resume building
- Get to see final design come to life
 - Embroidery
 - Screen printing
 - Vinyl Stickers

Sports Medicine Program

Entry Level Classes

- Sports Medicine 1

Upper Level Classes

- Sports Medicine 2



Sports Medicine Program

Career Options

- Athletic Training, Physical Therapy,
- Nursing, Strength and Conditioning,
- Physical Therapy Aide, Medical Assistant,
- Physician Assistant

Sports Medicine Program

Certification

- American Heart Association CPR/AED
- OSHA 10 Healthcare



Sports Medicine Program

CTSO Highlights

- 3 students last year that qualified for HOSA State Competition.
- Trips to Cadaver lab at GCU
- Community service helping at various cross country, track, swim, volleyball, wrestling events and invites.

Sports Medicine Program

Selling Points

- Former student graduated from GCU Athletic Training Program and is awaiting National Certification.
- Former student is now the Assistant Athletic Trainer at Basha High School
- Former student graduated from the University of Alabama Athletic Training Program and got accepted into NAU Physical Therapy School.
- Good background class for any Medical profession (vocabulary, anatomy, CPR, First Aid, Rehabilitation, taping). Opportunity for "hands on" experience after school (optional), Opportunity to meet other people interested in the Medical field (HOSA club)

Software and App Design Program

Entry Level Classes

- AP Computer Science Principles
- PLTW Cyber Security
- Software Engineering 1

Upper Level Classes

- Digital Electronics
- AP Computer Science A
- IB Computer Science



Software and App Design Program

Career Options

- Software engineer, hardware engineer, cybersecurity specialist,
- Web Developers, Software Developers,
- Network and Computer Systems Administrators,
- Information Security Analysts, Computer Systems Analysts,
- Computer Support Specialists, Computer Network Architects.
- Starting salaries begin at \$54,000 for Computer Support Specialists to over \$112,000 for Computer Network Architect.

Software and App Design Program

Certification

- **Certified Internet Web (CIW) - JavaScript Specialist**
- **Microsoft Technology Associate (MTA) in or one or more of the following:**
 - o **Gaming Development Fundamentals**
 - o **HTML5 Application Development Fundamentals**
 - o **Mobile Development Fundamentals**
 - o **Software Fundamentals**
 - Programmer Level 1 - Java Basics**
 - Oracle Java certification**
 - Oracle one**

Software and App Design Program

CTSO Highlights

- **Future Business Leaders of America**
- **Students have opportunities to compete in a wide range of competitive events at the region, state and national levels in computer science, business, entrepreneurship, hospitality and accounting to name a few.**
- **Students can run for chapter, state and national offices and learn real world leadership and organization skills and have the opportunity to make new friends from all over the state and nation. They can continue to be part of FBLA in college with Phi Beta Lambda (PBL).**
- **We received a \$5000 grant from Northrup Grumman this year to help with the costs of FBLA.**



Software and App Design Program

Selling Points

- If you like technology but also have other interests, you can find a way to merge those in computer science. I show students how they can connect their interests and technology.
- If you're a young woman interested in pursuing a career in this field, you can get college paid for.
- By the time this generation enters the workforce every occupation will be a technology worker. These classes will give students the advantages that will help them move ahead.
- Regardless of your skill level with computers these classes are for everybody.



Automotive Program

Entry Level Classes

- Automotive 1

Upper Level Classes

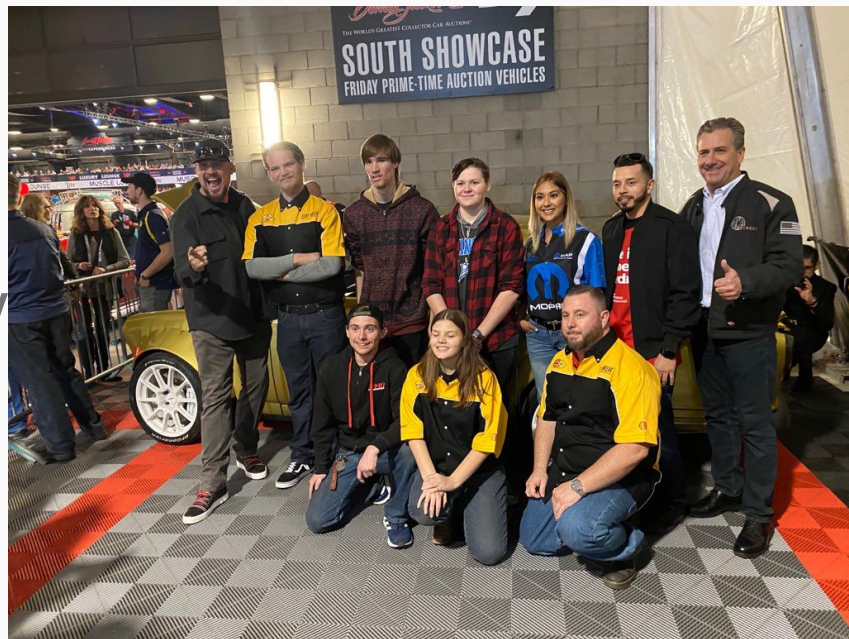
- Automotive 2
- Automotive 3



Automotive Program

Career Options

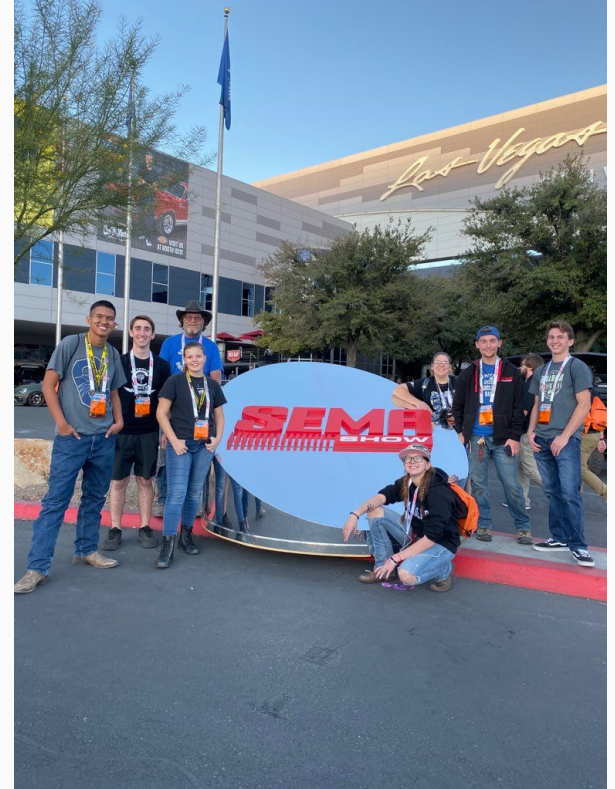
- Automotive Mechanic
- Automotive Design
- Automotive Paint and Body
- Automotive Customizing
- Auto Trainer/Teacher
- Part Dealer
- Service Manager/Writer



Automotive Program

Certification

- Automotive Service Excellence



Automotive Program

CTSO Highlights

- Monthly Open Shops on Saturdays
- SEMA, Specialized Equipment Manufacturing Association in Las Vegas
 - Training and meet leaders in the industry
- Car Shows

Automotive Program

Selling Points

- Save money work on own car or be knowledgeable if getting work done
- Hands on class, work on vehicles during block days
- Bring in your own vehicle or family members cars
- Lean employability skills

Marketing Program

Entry Level Classes

- Marketing 1

Upper Level Classes

- Marketing 2
- School Based Enterprise
- Marketing Econ Coop Education (Economics Credit)
- Marketing Work

Marketing Program

Career Options

- **Business**
- **Marketing**
- **Retail**
- **Entrepreneurship**
- **Sports and Entertainment**
- **Hospitality**

Marketing Program

Dual Enrollment Classes

- Marketing 1
- Marketing 2
- School Based Enterprise
- Marketing Econ Coop Education

Marketing Program

CTSO Highlights

- Our program is one of the larger ones for the district.
- DECA's mission is to prepare emerging leaders and entrepreneurs in marketing, finance, hospitality and management in high schools and colleges around the globe. Its guiding principles include academically prepared, community oriented, professionally responsible and experienced leaders.
- Our students attend local, state and national competitions

Marketing Program

Selling Points

- Students get to participate in hands on activities and projects.
- Market Days is an example in which students create their own products or services and sell those during the school year to get that first hand experience.



Film/ TV Program

Entry Level Classes

- Multi Media and Film 1

Upper Level Classes

- Multi Media and Film 2



Film/ TV Program

Career Options

- Anchor/Reporter/Sports Commentator
- Video Editor, Animator
- Sound Engineering Technician
- Sound Effects Engineer
- Recording Engineer
- Drone Operator



ENG Electronic News Gathering

Film/ TV Program

Certification

- Adobe Creative Suite Associate Certificates
- Adobe Certified Associate Certificate.



Film/ TV Program

CTSO Highlights

- Compete in the CUSD Film Festival each spring.
- Student produced, directed, and staffed, Livestream events on campus.
- Field trips to CRAS, Local News Stations
- Won 6A Spirit Award, Runner Up Large School Division

Film/ TV Program

Selling Points

- Careers in evolving technologies
- New Mac labs
- Industry Standard software, Adobe Creative Suite 2020, Cloud based.

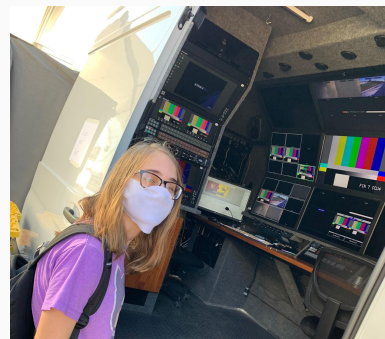


Photo Program

Entry Level Classes

- Digital Photo 1

Upper Level Classes

- Digital Photo 2



Photo Program

Career Options

- Portrait, Wedding, Journalism, Advertising, Fashion, and Fine Art
- Forensic photography, Pet photography, Military, and Social Media
- Image editing side there are numerous skills for image manipulation in photography, film, and video.

Photo Program

Certification

- Adobe Certified Associate (ACA)
- Adobe Certified Professional

Photo Program

CTSO Highlights

- CTSO offers an opportunity to take field trips
 - AZ State Fair
 - Barret-Jackson
 - Tempe Town Lake
 - Gilbert-Riparian Preserve



Photo Program

Selling Points

- No camera needed
- Fun & creative and challenging

