UTAH COUNTY ACADEMY OF SCIENCES
UCAS
STEM EARLY COLLEGE HIGH SCHOOL

Utah Charter Schools
CTE CONSORTIUM

CTE PATHWAYS AT UCAS (2025-26)

ENGINEERING **Explorer Courses** • Architectural Design 1 (ARC 1010) - 0.5 • Mechanical Design and Engineering 1 (EGDT 1040) - 0.5 • Robotics 1 - 0.5 **Concentrator Courses** • Mechanical Design and Engineering 2 (EGDT 1071) - 0.5 • Robotics 2 - 0.5 **Completer Course** • Computer Programming, Advanced CE - 1.0 Advanced Manufacturing and Engineering	**BROADCASTING AND DIGITAL MEDIA** **Explorer Courses** • Computer Programming I - 0.5 • Computer Science Principles CE - 0.5 • Digital Media I - 0.5 **Concentrator Courses** • **Completer Courses** • Arts, Entertainment and Design	**BUSINESS** **Explorer Courses** • Digital Media I - 0.5 **Concentrator Courses** • **Completer Courses** • Business Management and Entrepreneurship
PROGRAMMING AND SOFTWARE DEVELOPMENT **Explorer Courses** • Computer Programming I - 0.5 • Computer Science Principles CE - 0.5 • Robotics 1 - 0.5 **Concentrator Courses** • Computer Programming 2 CE - 0.5 **Completer Course** • Computer Programming, Advanced CE - 1.0 Digital Technology	**WEB DEVELOPMENT** **Explorer Courses** • Computer Programming I - 0.5 • Computer Science Principles CE - 0.5 • Digital Media I - 0.5 **Concentrator Courses** • Web Development 2 CE - 0.5 **Completer Courses** • Digital Technology	**HEALTH SCIENCE** **Explorer Courses** • Health Science, Intro - 0.5 **Concentrator Courses** • Biotechnology (UVU) - 1.0 • Medical Forensics (CJ 1350) - 1.0 **Completer Courses** • Emergency Medical Technician (ESEC 1140) - 1.0 Healthcare and Human Services

AVIATION **Explorer Courses** ● Automotive, Intro (AUT 1120, AUT 1125) - 0.5 ● Electronics, Intro (ECE 1000) - 0.5 **Concentrator Courses** ● Aviation Weather (AVSC 2110) - 0.5 **Completer Course** ● Air Transportation (AVSC 2130) - 0.5-1.0* Supply Chain & Transportation		

* Completer Pathway: 3 credits w/1 concentrator course + 1 completer course
^ Completer Pathway: 4 total courses in the same pathway, including at least 2 concentrator and/or completer courses

CTE PATHWAYS AT UCAS (2026-27)

ENGINEERING*^

Explorer Courses
- Architectural Design 1 (ARC 1010) - 0.5
- Mechanical Design and Engineering 1 (EGDT 1040) - 0.5
- Robotics 1 - 0.5

Concentrator Courses
- Mechanical Design and Engineering 2 (EGDT 1071) - 0.5
- Robotics 2 - 0.5

Completer Course
- Computer Programming, Advanced CE - 1.0

Advanced Manufacturing and Engineering

BROADCASTING AND DIGITAL MEDIA^

Explorer Courses
- Computer Programming I - 0.5
- Computer Science Principles CE - 0.5
- Digital Media I - 0.5

Concentrator Courses
- 3D Animation 1 (DAGV 1300) - 0.5
- 3D Graphics 1 (DAGV 1200) - 0.5

Completer Courses
-

Arts, Entertainment and Design

BUSINESS

Explorer Courses
- Digital Media I - 0.5
- Entrepreneurship (ENTR 2500) - 0.5
- Exploring Business, Finance & Marketing (MKTG 1890, IM 2010, IM 2600) - 0.5
- Marketing 1 - 0.5

Concentrator Courses
- Business Management (MGMT 1010, MGMT 2400) - 0.5

Completer Courses
-

Business Management and Entrepreneurship

PROGRAMMING AND SOFTWARE DEVELOPMENT*^

Explorer Courses
- Computer Programming I - 0.5
- Computer Science Principles CE - 0.5
- Robotics 1 - 0.5

Concentrator Courses
- Computer Programming 2 CE - 0.5

Completer Course
- Computer Programming, Advanced CE - 1.0

Digital Technology

WEB DEVELOPMENT

Explorer Courses
- Computer Programming I - 0.5
- Computer Science Principles CE - 0.5
- Digital Media I - 0.5

Concentrator Courses
- Web Development 2 CE - 0.5

Completer Courses
-

Digital Technology

HEALTH SCIENCE*^

Explorer Courses
- Health Science, Intro - 0.5

Concentrator Courses
- Biotechnology (UVU) - 1.0
- Medical Forensics (CJ 1350) - 1.0

Completer Courses
- Emergency Medical Technician (ESEC 1140) - 1.0
- Medical Assistant (MTECH) - 2.0
- Nursing Assistant (MTECH)
- Pharmacy Technician (MTECH)

Healthcare and Human Services

* Completer Pathway: 3 credits w/1 concentrator course + 1 completer course
^ Completer Pathway: 4 total courses in the same pathway, including at least 2 concentrator and/or completer courses

AVIATION^ **Explorer Courses** ● Automotive, Intro (AUT 1120, AUT 1125) - 0.5 ● Electronics, Intro (ECE 1000) - 0.5 **Concentrator Courses** ● Aviation Weather (AVSC 2110) - 0.5 **Completer Course** ● Air Transportation (AVSC 2130) - 0.5-1.0* Supply Chain & Transportation		

* Completer Pathway: 3 credits w/1 concentrator course + 1 completer course
^ Completer Pathway: 4 total courses in the same pathway, including at least 2 concentrator and/or completer courses

CTE PATHWAYS AT UCAS (2024-25)

AGRICULTURE

Explorer Courses
- Automotive, Intro (UVU) - 0.5
- Food & Nutrition (UVU) - 0.5

Concentrator Courses
-

Completer Courses
-

Agriculture, Food & Natural Resources

ARCHITECTURE & INTERIOR DESIGN

Explorer Courses
- Architectural Design 1 (UVU) - 0.5
- Digital Media I CE - 0.5

Concentrator Courses
-

Completer Courses
-

Architecture & Construction

BROADCASTING AND DIGITAL MEDIA

Explorer Courses
- 3D Graphics (UVU)- 0.5
- Computer Programming I - 0.5
- Computer Science Principles CE - 0.5
- Digital Media I CE - 0.5
- Digital Media 2 (UVU) - 0.5

Concentrator Courses
- Digital Media, Advanced (UVU) - 1.0

Completer Courses
-

Arts, Audio/Visual Technology and Communications

BUSINESS

Explorer Courses
- Digital Media I - 0.5
- Entrepreneurship (UVU) - 0.5
- Exploring Business, Finance & Marketing (UVU) - 0.5
- Marketing 1 (UVU) - 0.5

Concentrator Courses
- Business Management (UVU) - 0.5

Completer Courses
-

Business, Finance and Marketing

PROGRAMMING AND SOFTWARE DEVELOPMENT

Explorer Courses
- Computer Programming I - 0.5
- Computer Science Principles CE - 0.5
- Robotics 1 - 0.5

Concentrator Courses
- Computer Programming 2 CE - 0.5

Completer Course
- Algorithms & Data Structures (UVU) - 1.0
- Computer Programming, Advanced CE - 1.0

Computer Science and Information Technology

WEB DEVELOPMENT

Explorer Courses
- Computer Programming I - 0.5
- Computer Science Principles CE - 0.5
- Digital Media I - 0.5
- Entrepreneurship (UVU) - 0.5
- Marketing 1 (UVU) - 0.5

Concentrator Courses
- Web Development 2 CE - 0.5

Completer Courses
-

Computer Science and Information Technology

* Completer Pathway: 3 credits w/1 concentrator course + 1 completer course
^ Completer Pathway: 4 total courses in the same pathway, including at least 2 concentrator and/or completer courses

ENGINEERING **Explorer Courses** ● Engineering Principles 1 (UVU) - 0.5 ● Engineering Technology (UVU) - 0.5 ● Robotics 1 - 0.5 **Concentrator Courses** ● Engineering Principles 2 (UVU) - 0.5 ● Robotics 2 - 0.5 **Completer Course** ● Engineering and Technology	**HEALTH SCIENCE** **Explorer Courses** ● **Concentrator Courses** ● Biotechnology (UVU) - 1.0 **Completer Courses** ● Health Science	**PROTECTIVE SERVICES** **Explorer Courses** ● Criminal Justice, Intro (UVU) - 0.5 ● Fire Science, Intro (UVU) - 0.5 ● Law Enforcement (UVU) - 0.5 **Concentrator Courses** ● Criminal Law (UVU) - 0.5 **Completer Course** ● Law, Public Safety, Corrections & Security
AUTOMOTIVE **Explorer Courses** ● Automotive, Intro (UVU) - 0.5 ● Collision Non-Structural Repair (UVU) - 0.5 ● Entrepreneurship (UVU) - 0.5 **Concentrator Courses** ● **Completer Course** ● Transportation, Distribution, & Logistics	**AVIATION** **Explorer Courses** ● Automotive, Intro (UVU) - 0.5 **Concentrator Courses** ● **Completer Course** ● Aircraft Systems (UVU) - 0.5 Transportation, Distribution, & Logistics	

* Completer Pathway: 3 credits w/1 concentrator course + 1 completer course
^ Completer Pathway: 4 total courses in the same pathway, including at least 2 concentrator and/or completer courses