



**Westlake High School  
CTE Career Pathways**

updated 8/24

**CTE Specialist: Laura Giles**  
[lauragiles@alpinedistrict.org](mailto:lauragiles@alpinedistrict.org)

**\*\*3 credits are required to complete a CTE Pathway**

**\*\*CTE Pathways are subject to change\*\***

**Agriculture & Food Science**

| Agricultural Mechanics Systems  |            |              |
|---------------------------------|------------|--------------|
| Required CTE Course             |            | Grades       |
| Ag Mechanics 2 (Ag Systems 2)   | 1.00       | 11-12        |
| CTE Courses                     |            |              |
| Ag Mechanics 1 (Ag Systems 1)   | 1.00       | 10-12        |
| Advanced Ag Mechanics           | 1.00       | 11-12        |
| Biology Agriculture             | 1.00       | 9            |
| Business Communication 1 / 2    | .50        | 10-12        |
| Introduction Automotive @ MVHS  | .50        | 10-12        |
| <b>Business Leadership 1 CE</b> | <b>.50</b> | <b>10-12</b> |
| CTE Internship                  | .50        | 12           |

| Animal & Veterinary Science     |            |              |
|---------------------------------|------------|--------------|
| Required CTE Course             |            | Grades       |
| Animal Science 2 CE (thru Snow) | 1.00       | 11-12        |
| CTE Courses                     |            |              |
| Animal Science 1                | 1.00       | 10-12        |
| Aquaculture                     | 1.00       | 10-12        |
| Business Communication 1 / 2    | .50        | 10-12        |
| Biology Agriculture             | 1.00       | 9            |
| Equine Science                  | .50        | 10-12        |
| <b>Business Leadership 1 CE</b> | <b>.50</b> | <b>10-12</b> |
| Veterinary Assistant 1          | 1.00       | 10-12        |
| CTE Internship                  | .50        | 12           |

| Plant Science                            |            |              |
|--|------------|--------------|
| Required CTE Course - choose 1           |            | Grades       |
| Floral Design (Floriculture)             | .50        | 10-12        |
| Sustainable Urban Agriculture            | 1.00       | 10-12        |
| CTE Courses                              |            |              |
| Advanced Floriculture                    | .50        | 10-12        |
| <b>Plant &amp; Soil Science 1 CE USU</b> | <b>.50</b> | <b>10-12</b> |
| Greenhouse Management                    | .50        | 10-12        |
| Biology Agriculture                      | 1.00       | 9            |
| Business Communication 1 / 2             | .50        | 10-12        |
| <b>Business Leadership 1 CE</b>          | <b>.50</b> | <b>10-12</b> |
| CTE Internship                           | .50        | 12           |

| Food Science, Dietetics & Nutrition |              |              |
|-------------------------------------|--------------|--------------|
| Required CTE Course                 |              | Grades       |
| Dietetics & Nutrition (Foods 2)     | .50          | 10-12        |
| CTE Courses                         |              |              |
| Foods & Nutrition 1                 | .50          | 9-12         |
| Medical Anatomy & Phys              | 1.00         | 11-12        |
| <b>Human Dev UVU PSY1100 CE</b>     | <b>1.00</b>  | <b>11-12</b> |
| <b>Foundation of Nutrition CE</b>   | <b>.50-1</b> | <b>11-12</b> |
| CTE Internship                      | .50          | 12           |

**Architecture & Construction**

| Interior Design                  |      |        |
|----------------------------------|------|--------|
| Required CTE Course              |      | Grades |
| Interior Design 2                | .50  | 10-12  |
| CTE Courses                      |      |        |
| Interior Design 1                | .50  | 9-12   |
| Construction Technology          | .50  | 9      |
| Business Communication 1         | .50  | 10-12  |
| Digital Media 1                  | .50  | 10-12  |
| Entrepreneurship                 | .50  | 10-12  |
| Interior Design 3 (at Lone Peak) | 1.00 | 11-12  |
| Sewing 3                         | .50  | 11-12  |
| CTE Internship                   | .50  | 12     |

| Construction & Structural Systems |             |        |
|-----------------------------------|-------------|--------|
| Required Courses                  |             | Grades |
| Building Construction             | 4.00        | 11-12  |
| Class on Project Site             | (full year) |        |

**Arts, Audio/Visual Technology & Communications**

| Broadcasting & Digital Media       |             |              |
|------------------------------------|-------------|--------------|
| Required CTE Course - choose 1     |             | Grades       |
| TV Broadcasting 1                  | .50         | 10-12        |
| Video Production 1                 | .50         | 10-12        |
| Digital Audio 1                    | .50         | 10-12        |
| Digital Media (MTECH)              | 1.00        | 11-12        |
| CTE Courses                        |             |              |
| Computer Programming 1             | .50         | 10-12        |
| Digital Media 1                    | .50         | 10-12        |
| Web Development 1                  | .50         | 9-12         |
| TV Broadcasting 2                  | .50         | 10-12        |
| Video Production 2 (Thundervision) | 1.00        | 10-12        |
| <b>Video Production 2 CE (B8)</b>  | <b>1.00</b> | <b>10-12</b> |
| 3D Graphics (3D Modeling)          | .50         | 10-12        |
| CTE Internship                     | .50         | 12           |

| Graphic Design & Communications |     |        |
|---------------------------------|-----|--------|
| Required CTE Course - choose 1  |     | Grades |
| Com Art 2 (Mixed Media Art)     | .50 | 10-12  |
| Digital Photo 1                 | .50 | 10-12  |
| CTE Courses                     |     |        |
| Com Art 1 (2 D Design)          | .50 | 10-12  |
| Com Art 3 (3 D Design)          | .50 | 10-12  |
| Digital Photo 2                 | .50 | 10-12  |
| Digital Media 1                 | .50 | 10-12  |
| Entrepreneurship                | .50 | 10-12  |
| Digital Business Apps           | .50 | 9-12   |
| 3D Graphics (3D Modeling)       | .50 | 10-12  |
| Interior Design 1               | .50 | 10-12  |
| CTE Internship                  | .50 | 12     |

| Fashion Apparel & Textiles     |            |              |
|--------------------------------|------------|--------------|
| Required CTE Course - choose 1 |            | Grades       |
| Sewing 2                       | .50        | 10-12        |
| Sports Sewing 2                | .50        | 10-12        |
| Fashion Design Merchandising   | .50        | 10-12        |
| CTE Courses                    |            |              |
| Sewing 1 or Sports Sewing 1    | .50        | 9            |
| <b>Sewing 1 CE USU</b>         | <b>.50</b> | <b>10-12</b> |
| <b>Sports Sewing 1 CE USU</b>  | <b>.50</b> | <b>10-12</b> |
| Sewing 3                       | .50        | 11-12        |
| Fashion Design Studio          | .50        | 9-12         |
| Digital Media 1                | .50        | 10-12        |
| Entrepreneurship               | .50        | 10-12        |
| CTE Internship                 | .50        | 12           |

**Business, Finance & Marketing**

| Accounting & Finance           |            |              |
|--------------------------------|------------|--------------|
| Required CTE Course - choose 1 |            | Grades       |
| Accounting 2                   | .50        | 10-12        |
| Investing & Wealth Mgmt        | .50        | 10-12        |
| CTE Courses                    |            |              |
| Accounting 1                   | .50        | 10-12        |
| Business Communication 1       | .50        | 10-12        |
| Business Communication 2       | .50        | 10-12        |
| Business Office Specialist     | .50        | 9            |
| Digital Business Apps          | .50        | 9-12         |
| <b>Economics CE</b>            | <b>.50</b> | <b>10-12</b> |
| Entrepreneurship               | .50        | 10-12        |
| Exploring Business & Marketing | .50        | 9            |
| Sports Marketing               | .50        | 10-12        |
| Real Estate                    | .50        | 10-12        |
| Web Development 1              | .50        | 9-12         |
| Business/Marketing Capstone    | 1.0        | 11-12        |
| CTE Internship                 | .50        | 12           |

| Business                        |            |              |
|---------------------------------|------------|--------------|
| Required CTE Course - choose 1  |            | Grades       |
| <b>Business Management CE</b>   | <b>.50</b> | <b>10-12</b> |
| CTE Courses                     |            |              |
| Accounting 1                    | .50        | 10-12        |
| Business Communication 1        | .50        | 10-12        |
| Business Communication 2        | .50        | 10-12        |
| <b>Business Leadership 1 CE</b> | <b>.50</b> | <b>10-12</b> |
| Business Office Specialist      | .50        | 9            |
| Digital Business Apps           | .50        | 9-12         |
| Digital Media 1                 | .50        | 10-12        |
| <b>Economics CE</b>             | <b>.50</b> | <b>10-12</b> |
| Entrepreneurship                | .50        | 10-12        |
| Exploring Business & Marketing  | .50        | 9            |
| Real Estate                     | .50        | 10-12        |
| Sports Marketing                | .50        | 10-12        |
| Web Development 1               | .50        | 9-12         |
| Business/Marketing Capstone     | 1.0        | 11-12        |
| CTE Internship                  | .50        | 12           |

| Marketing                      |            |              |
|--------------------------------|------------|--------------|
| Required CTE Course            |            | Grades       |
| Influence & Content Marketing  | .50        | 10-12        |
| CTE Courses                    |            |              |
| Accounting 1                   | .50        | 10-12        |
| Business Communication 1       | .50        | 10-12        |
| Business Communication 2       | .50        | 10-12        |
| Business Office Specialist     | .50        | 9            |
| Digital Business Apps          | .50        | 9-12         |
| Digital Media 1                | .50        | 10-12        |
| <b>Economics CE</b>            | <b>.50</b> | <b>10-12</b> |
| Entrepreneurship               | .50        | 10-12        |
| Exploring Business & Marketing | .50        | 9            |
| Real Estate                    | .50        | 10-12        |
| Sports Marketing               | .50        | 10-12        |
| Web Development 1              | .50        | 9-12         |
| Business/Marketing Capstone    | 1.0        | 11-12        |
| CTE Internship                 | .50        | 12           |



\*Concurrent Enrollment classes are listed with CE

All pathways require 1 required course and a total of 3 credits to complete the pathway

## Computer Science & Info Tech

| Cybersecurity                   |             |              |
|---------------------------------|-------------|--------------|
| Required CTE Course             |             | Grade        |
| <b>Linux/Cybersecurity CE</b>   | <b>1.00</b> | <b>10-12</b> |
| CTE Courses                     |             |              |
| Computer Programming 1          | .50         | 10-12        |
| Exploring Computer Science      | .50         | 9-12         |
| <b>Intro to IT Info Tech CE</b> | <b>.50</b>  | <b>10-12</b> |
| Math 1050 or AP Math            | .50         | 10-12        |
| Web Development 1               | .50         | 9-12         |
| CTE Internship                  | .50         | 12           |

| Information Technology Systems       |             |              |
|--------------------------------------|-------------|--------------|
| Required CTE Course                  |             | Grades       |
| <b>Computer Systems 1 &amp; 2 CE</b> | <b>1.00</b> | <b>10-12</b> |
| CTE Courses                          |             |              |
| <b>Intro to IT Info Tech CE</b>      | <b>.50</b>  | <b>10-12</b> |
| Computer Programming 1               | .50         | 10-12        |
| Exploring Computer Science           | .50         | 9-12         |
| Math 1050 or AP Math                 | .50         | 10-12        |
| Robotics 1                           | .50         | 10-12        |
| Robotics Technology                  | .50         | 9            |
| Web Development 1                    | .50         | 9-12         |
| CTE Internship                       | .50         | 12           |

| Programming & Software Development     |             |              |
|--|-------------|--------------|
| Required CTE Course - choose 1         |             | Grades       |
| <b>Computer Program 1/2 CE</b>         | <b>1.00</b> | <b>10-12</b> |
| <b>Game Dev Fundamentals 1</b>         | <b>.50</b>  | <b>10-12</b> |
| CTE Courses                            |             |              |
| Computer Programming 1                 | .50         | 10-12        |
| Exploring Computer Science             | .50         | 9-12         |
| <b>Intro to IT Info Tech CE</b>        | <b>.50</b>  | <b>10-12</b> |
| Mobile App Development                 | .50         | 10-12        |
| Math 1050 or AP Math                   | .50         | 10-12        |
| Robotics 1                             | .50         | 10-12        |
| Robotics Technology                    | .50         | 9            |
| Game Dev Fundamentals 2                | .50         | 10-12        |
| Web Development 1                      | .50         | 9-12         |
| <b>Algorithms &amp; Data Struct CE</b> | <b>1.00</b> | <b>11-12</b> |
| <b>Computer Programming 3 CE</b>       | <b>1.00</b> | <b>11-12</b> |
| CTE Internship                         | .50         | 12           |

| Web Development                 |            |              |
|---------------------------------|------------|--------------|
| Required CTE Course             |            | Grades       |
| <b>Web Development 2</b>        | <b>.50</b> | <b>10-12</b> |
| CTE Courses                     |            |              |
| Web Development 1               | .50        | 9-12         |
| Web Development 3               | 1.00       | 11-12        |
| Computer Programming 1          | .50        | 10-12        |
| Digital Media 1                 | .50        | 10-12        |
| Exploring Comp Science          | .50        | 9-12         |
| <b>Intro to IT Info Tech CE</b> | <b>.50</b> | <b>10-12</b> |
| Entrepreneurship                | .50        | 10-12        |
| Math 1050 or AP Math            | .50        | 10-12        |
| CTE Internship                  | .50        | 12           |

## Education & Training

| Pre-K: Early Childhood Education |            |              |
|----------------------------------|------------|--------------|
| Required CTE Course              |            | Grades       |
| <b>Early Childhood Ed 2</b>      | <b>.50</b> | <b>10-12</b> |
| CTE Courses                      |            |              |
| Child Development                | .50        | 9-12         |
| Food and Nutrition 1             | .50        | 9-12         |
| Early Childhood Education 1      | .50        | 10-12        |
| Early Childhood Education 3      | 1.00       | 11-12        |
| CTE Internship                   | .50        | 12           |

| K-12: Teaching as a Profession            |             |              |
|---|-------------|--------------|
| Required CTE Course                       |             | Grades       |
| <b>Aspiring Educators (TAP 3)</b>         | <b>.50</b>  | <b>10-12</b> |
| CTE Courses                               |             |              |
| Teaching as a Profession 1 (TAP 1)        | .50         | 10-12        |
| <b>Human Dev UVU PSY 1100</b>             | <b>1.00</b> | <b>11-12</b> |
| Business Communication 1                  | .50         | 10-12        |
| Math 1030                                 | .50         | 10-12        |
| Math 1050 or AP Math                      | .50         | 10-12        |
| English 1010 or AP English                | 1.00        | 11-12        |
| <b>Principles of Education (TAP 2) CE</b> | <b>.50</b>  | <b>11-12</b> |
| CTE Internship (in a local school)        | .50         | 12           |

## Engineering & Technology

| Engineering                      |             |              |
|----------------------------------|-------------|--------------|
| Required CTE Course - choose 1   |             | Grades       |
| <b>Robotics 2</b>                | <b>.50</b>  | <b>10-12</b> |
| CTE Courses                      |             |              |
| Robotics Technology              | .50         | 9            |
| Robotics 1                       | .50         | 10-12        |
| <b>CAD Mechanical 1 CE</b>       | <b>.50</b>  | <b>10-12</b> |
| Engineering Technology           | .50         | 9            |
| Woodworking 1                    | .50         | 10-12        |
| <b>Woodworking 1 CE</b>          | <b>1.00</b> | <b>10-12</b> |
| <b>Welding Tech 1 CE (MTECH)</b> | <b>1.00</b> | <b>12</b>    |
| CTE Internship                   | .50         | 12           |

## Health Science

| Health Science                           |              |              |
|--|--------------|--------------|
| Required CTE Course - choose 1           |              | Grades       |
| <b>EMR CE</b>                            | <b>.50</b>   | <b>10-12</b> |
| <b>Sports Medicine CE (Exercise Sci)</b> | <b>1.00</b>  | <b>11-12</b> |
| <b>Medical Forensics CE</b>              | <b>1.00</b>  | <b>10-12</b> |
| Medical Anatomy & Physiology             | 1.00         | 10-12        |
| CTE Courses                              |              |              |
| Health Science, Intro.                   | .50          | 9            |
| Psychology                               | .50          | 10-12        |
| <b>Foundation of Nutrition CE</b>        | <b>.50-1</b> | <b>11-12</b> |
| <b>Human Dev UVU PSY 1100</b>            | <b>1.00</b>  | <b>11-12</b> |
| <b>Medical Terminology CE</b>            | <b>.50</b>   | <b>10-12</b> |
| Dental Assistant (MTECH)                 | 2.00         | 12           |
| EMT (MTECH)                              | 2.00         | 12           |
| Medical Asst. (MTECH)                    | 2.00         | 12           |
| Nurse Asst. CNA (MTECH)                  | 1.00         | 11-12        |
| Pharmacy Tech (MTECH)                    | 2.00         | 12           |
| CTE Internship                           | .50          | 12           |

## Hospitality & Tourism

| Culinary Arts        |             |              |
|----------------------|-------------|--------------|
| Required CTE Course  |             | Grades       |
| <b>ProStart 1 CE</b> | <b>1.00</b> | <b>11-12</b> |
| CTE Courses          |             |              |
| Food and Nutrition 1 | .50         | 9-12         |
| Culinary Arts 1      | .50         | 10-12        |
| <b>ProStart 2 CE</b> | <b>1.00</b> | <b>10-12</b> |
| CTE Internship       | .50         | 12           |

## Law, Public Safety, Corrections

| Protective Services - Law Enforcement |             |              |
|---------------------------------------|-------------|--------------|
| Required CTE Course                   |             | Grades       |
| <b>Criminal Law UVU CJ1330</b>        | <b>1.00</b> | <b>11-12</b> |
| CTE Courses                           |             |              |
| Exploring Comp Science                | .50         | 9-12         |
| Health Science, Intro.                | .50         | 9            |
| Business Leadership 1                 | .50         | 10-12        |
| <b>Intro to IT Info Tech CE</b>       | <b>.50</b>  | <b>10-12</b> |
| <b>Intro Criminal Justice CJ1010</b>  | <b>1.00</b> | <b>11-12</b> |
| CTE Internship                        | .50         | 12           |

## Manufacturing

| Manufacturing & Production        |             |              |
|-----------------------------------|-------------|--------------|
| Required CTE Course               |             | Grades       |
| <b>Woods 2 - Furniture Design</b> | <b>1.00</b> | <b>10-12</b> |
| CTE Courses                       |             |              |
| Manufacturing Technology          | .50         | 9            |
| <b>CAD Mechanical 1 CE</b>        | <b>.50</b>  | <b>10-12</b> |
| Woodworking 1                     | .50         | 10-12        |
| <b>Woodworking CE</b>             | <b>1.00</b> | <b>11-12</b> |
| CTE Internship                    | .50         | 12           |

## Human Services

| Personal Care Services                  |             |              |
|---|-------------|--------------|
| Required CTE Course - choose 1          |             | Grades       |
| <b>Basic Esthetician (private)</b>      | <b>2.00</b> | <b>12</b>    |
| <b>Cosmetology (MTECH)</b>              | <b>2.00</b> | <b>12</b>    |
| <b>Hair Design or Nail Tech (MTECH)</b> | <b>1.00</b> | <b>11-12</b> |
| CTE Courses                             |             |              |
| Business Leadership 1                   | .50         | 10-12        |
| Business Office Specialist              | .50         | 9            |
| Entrepreneurship                        | .50         | 10-12        |
| CTE Internship                          | .50         | 12           |

| Family & Human Services                 |             |              |
|---|-------------|--------------|
| Required CTE Course                     |             | Grades       |
| <b>Ind &amp; Family Relations (ESO)</b> | <b>.50</b>  | <b>10-12</b> |
| CTE Courses                             |             |              |
| Health Science, Intro                   | .50         | 9            |
| Psychology                              | .50         | 10-12        |
| <b>Human Dev UVU PSY 1100</b>           | <b>1.00</b> | <b>11-12</b> |
| CTE Internship                          | .50         | 12           |



CTE does not discriminate based on race, color, national origin, gender, sexual orientation, or disabilities.

\*Concurrent Enrollment classes are listed with CE

All pathways require 1 required course and a total of 3 credits to complete the pathway

Pathways in Aviation, Welding, Auto Mechanics and Diesel can be earned by taking the courses required at MTECH or another high school in the district.