

Apprenticeship

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School of Technology and Computing

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Utah Valley State College, through the School of Technology and Computing, provides apprentices related theoretical instruction in structured classes.

Apprenticeship programs are composed of two parts: (1) on-the-job training and (2) classroom instruction. On-the-job training is provided by a sponsor who exposes the apprentice to practical applications in all phases of a particular craft. The classroom related instruction is an organized and systematic form of instruction designed to provide the apprentice with knowledge of the theoretical and technical aspects of his or her craft. Total completion of an apprenticeship program will take from two to five years, depending upon the craft.

The College neither provides on-the-job training nor acts as program sponsor for apprentices. Individuals must locate their own program sponsors.

New apprenticeship classes, with a minimum of 15 students, can be offered on request from the community, business, and industry. For additional information on apprenticeship classes, contact the Apprenticeship Office.

Apprentice classes cannot be taken for audit without departmental approval.

REGISTRATION REQUIREMENTS

New Apprentices:

1. Submit Application for Admission to College Admissions Office (check APPR as your declared major).

2. Complete new Student Assessment Test with scores as follows:

- DPR Score of 61 or better
- Numerical Skill Score of 39 or better and/or Compass Pre-Algebra Score of 41 or better (Electricians need an algebra score of 58 or better) or
- Complete the APPR 1300 (Apprenticeship Math) with a "C" grade or higher. or
- Complete college level mathematics class with a grade of C or better within the last three years. or
- Complete ACT test with a score of 19 or better in mathematics within the last three years.

3. Verify commitment to attend all class sessions, complete all homework assignments, complete all quizzes, and pass a comprehensive final examination for each class.

4. Commitment by the employer to allow class attendance.

The above will need to be completed by new apprentices before approval will be granted to register for any apprenticeship class. It is strongly advised that these matters are taken care of well in advance of the start of class.

If above requirements are met, contact the Apprenticeship office to schedule an appointment prior to registration.

PROGRAMS

Most apprenticeship programs may lead to an Associate in Applied Science Degree in the related area. A Bachelor of Science in Technology Management degree is available for most apprenticeship programs as well.

It is recommended that all students take the ACT, SAT or the COMPASS testing and meet minimum score requirements. It is required that all students seeking an AAS or BSTM degree complete one of the prescribed tests. Students who choose to earn an AAS or BSTM degree are required to complete their indentured apprenticeship programs. Electricians and plumbers are also required to demonstrate that they have passed the state of Utah Journeyman Exam. In addition to this, all students must complete applicable General Education classes.

Reminder: an overall grade point average of 2.0 (C) or above is required for graduation.

AAS in Apprentice 64 CREDITS
General Education Requirements: 16 Credits

Apprenticeship

ENGLISH	2.0
• ENGL 1060 Career Writing for Technology (3.0)	
• Any higher English course	
MATHEMATICS	2.0
• MAT 1010 Intermediate Algebra (4.0)	
• Any higher Mathematics Course	
• Any approved Departmental Mathematics Course	
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE	2.0
• PHIL 2050 Ethics and Values (3.0)	
• Any approved Humanities, Fine Arts, or Foreign Language Distribution Course	
SOCIAL AND BEHAVIORAL SCIENCE	2.0
• MGMT 3000 Organizational Behavior (3.0)	
• Any approved Behavioral Science, Social, or Political Science Distribution Course	
BIOLOGY OR PHYSICAL SCIENCE	2.0
• EGD 1810 Principles of Technology (2.0)	
• Any approved Biology or Physical Science Distribution Course	
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT	1.0
• Any approved Physical Education, Health, Safety or Environment Course	
ADDITIONAL CREDITS FROM ANY OF THE ABOVE	5.0
Emphasis:	
Complete one of the following:	
• Aircraft Mechanic	48.0
• Carpenter Union Apprentice (JATC)	48.0
• Diesel Mechanics Apprentice	48.5
• Electrical Construction Apprentice	48.0
• Electrical Union Apprentice (JATC)	50.0
• HVAC Apprentice	48.0
• Industrial Maintenance Apprentice	48.0
• Lineman Apprentice	48.0
• Lineman Meter Apprentice	48.0
• Lineman Substation Apprentice	48.0
• Plumber Apprentice	48.0
• Sheet Metal	48.0

Graduation Requirements:

- 1 Completion of a minimum of 64-66 semester credits.
- 2 Overall grade point average of 2.0 (C) or above. (Departments may require a higher GPA.)
- 3 Residency hours -- minimum of 20 credit hours through course attendance at UVSC.
- 4 Completion of GE and specified departmental requirements.

Emphasis in Aircraft Mechanics 48 Credits

Emphasis Requirements:	48 Credits
• AVSC 1310 AMT Procedures and Practices A	5.0
• AVSC 1320 AMT General Knowledge A	5.0
• AVSC 1330 AMT Airframe Phase I B	5.0
• AVSC 1340 AMT Powerplant Phase I B	5.0
• AVSC 2210 AMT Airframe Phase II C	5.0
• AVSC 2220 AMT Airframe Phase III D	5.0
• AVSC 2230 AMT Powerplant Phase II C	5.0
• AVSC 2240 AMT Powerplant Phase III D	5.0
• AVSC 281R Cooperative Work Experience (Must be repeated 7 times) (1.0)	7.0
• AVSC 285R Cooperative Related Class	1.0

NOTES: The Airframe and Powerplant (A&P) Aircraft Mechanic program is a 3-year apprenticeship program with formal course work offered by the UVSC Aviation Science program in coordination with Apprenticeship services. Apprentices need to be employed by an airline, fixed base operator (FBO), or the military in a related occupation which offers aircraft mechanic experience on the job. Formal classroom training to Federal Aviation Agency Standards is offered by the Aviation program via distance learning.

Emphasis in Carpenter Union

Apprentice (JATC) 48 Credits

Emphasis Requirements:	48 Credits
• APPR 1800 Carpenter Apprentice 1A	5.0
• APPR 1810 Carpenter Apprentice 1B	5.0
• APPR 1820 Carpenter Apprentice 2A	5.0
• APPR 1830 Carpenter Apprentice 2B	5.0
• APPR 1840 Carpenter Apprentice 3A	5.0
• APPR 1850 Carpenter Apprentice 3B	5.0
• APPR 1860 Carpenter Apprentice 4A	5.0
• APPR 1870 Carpenter Apprentice 4B	5.0
• BCCM 281R Cooperative Work Experience (Must be repeated 7 times) (1.0)	7.0
• BCCM 285R Cooperative Correlated Class	1.0

Emphasis in Diesel Mechanics

Apprentice 48.5 Credits

Emphasis Requirements:	48.5 Credits
• DMT 1010 Diesel Apprentice Electrical 1A	5.0
• DMT 1020 Diesel Apprentice Engine Overhaul 1B	5.0

Apprenticeship

• DMT 1030	Diesel Apprentice Governor Systems 2A	3.5
• DMT 1040	Diesel Apprentice Engine Controls 2B	3.5
• DMT 1050	Diesel Apprentice Engine Diagnostics and Air Conditioning 2C	3.5
• DMT 1060	Diesel Apprentice Fluid Power 3A	5.0
• DMT 1070	Diesel Apprentice Power Transmission 3B	5.0
• DMT 1080	Diesel Apprentice Chassis 4A	5.0
• DMT 1090	Diesel Apprentice Power Trains 4B	5.0
• APPR 281R	Cooperative Work Experience (Must be repeated 7 times) (7.0)	7.0
• APPR 285R	Cooperative Correlated Class	1.0

NOTES: The Diesel Mechanic Technology program is a 4-year apprenticeship with formal course work offered by UVSC Diesel Technology program (see Diesel Mechanics Technology for details on specific classes.)

Diesel Apprentices need to be employed in a related occupation which offers on-the-job training on engines, automatic transmissions, drive trains, electrical systems, suspension and steering, hydraulics, and air systems. Such work may be on heavy equipment, farm equipment, and on-highway trucks. Apprentices receive formal training in all of the above, which prepares them to diagnose, repair, weld, and fine-tune the working parts of buses, trucks, construction machinery, and generators.

Please call the Apprentice office for details on class scheduling.

Emphasis in Electrical Construction

Apprentice	48 Credits
Emphasis Requirements:	48 Credits
• APPR 281R	Cooperative Work Experience (Must be repeated 7 times) (1.0)
• APPR 285R	Cooperative Correlated Class
• EART 1110	Electrical Apprentice 1A
• EART 1120	Electrical Apprentice 1B
• EART 1210	Electrical Apprentice 2A
• EART 1220	Electrical Apprentice 2B
• EART 2310	Electrical Apprentice 3A
• EART 2320	Electrical Apprentice 3B
• EART 2410	Electrical Apprentice 4A
• EART 2420	Electrical Apprentice 4B

NOTES: The Construction Electrician is a compulsory licensed craftsman who plans, lays out and installs, alters or repairs electrical wiring, fixtures, apparatus and controls. Educational suggestions for high school subjects include basic mathematics, geometry, algebra, physics, welding, wood shop, blue print reading, and mechanical drawing.

Emphasis in Electrical Union

Apprentice (JATC)	50 Credits
Emphasis Requirements:	50 Credits
• EART 1300	Electrical Union Apprentice 1A
• EART 1310	Electrical Union Apprentice 1B
• EART 1320	Electrical Union Apprentice 2A
• EART 1330	Electrical Union Apprentice 2B
• EART 2330	Electrical Union Apprentice 3A
• EART 2340	Electrical Union Apprentice 3B
• EART 2350	Electrical Union Apprentice 4A
• EART 2360	Electrical Union Apprentice 4B
• EART 2370	Electrical Union Apprentice 5A
• EART 2380	Electrical Union Apprentice 5B

NOTE: The Electrical Union Apprenticeship program is a four-year program which is offered through the Electrical JATC. Classes are conducted at UVSC.

Emphasis in HVAC Apprentice

Apprentice	48 Credits
Emphasis Requirements:	48 Credits
• APPR 281R	Cooperative Work Experience (Must be repeated 7 times) (1.0)
• APPR 285R	Cooperative Correlated Class
• HVAC 1200	HVAC 1A
• HVAC 1130	HVAC 1B
• HVAC 1220	HVAC 2A
• HVAC 1150	HVAC 2B
• HVAC 2200	HVAC 3A
• HVAC 1170	HVAC 3B
• HVAC 2220	HVAC 4A
• HVAC 1190	HVAC 4B

NOTE: The Heating, Ventilation, and Air Conditioning (HVAC) apprenticeship program is a four-year program that combines on-the-job work experience with class room instruction to prepare HVAC technicians for working in the field at the Journeyman level. Apprentices are given training in service, installation, safety and code requirements.

Emphasis in Industrial Maintenance Apprentice

Emphasis Requirements:	48 Credits
Complete the following:	
• APPR 281R	Cooperative Work Experience (1.0)
• APPR 285R	Cooperative Correlated Class (1.0)
• DMT 1400	Industrial Maintenance 1A
• DMT 1410	Industrial Maintenance 1B
• DMT 1430	Industrial Maintenance 2B
• EART 1010	Industrial Maintenance 2A
Complete 10 credits from the following:	10.0
• DMT 1440	Industrial Maintenance 3B (5.0)
• MET 1400	Industrial Maintenance 3A (5.0)
• WELD 1300	Industrial Maintenance 3C (5.0)
• WELD 1350	Industrial Maintenance 3D (5.0)
Complete 10 credits from the following:	10.0
• EART 1020	Industrial Maintenance 4A (5.0)
• HVAC 1110	Industrial Maintenance 4D (5.0)
• WELD 1310	Industrial Maintenance 4B (5.0)
• WELD 1320	Industrial Maintenance 4C (5.0)

NOTE: The Industrial Maintenance apprenticeship program is a four-year program that combines on-the-job work experience with classroom instruction to prepare the Industrial Maintenance apprentices for working in the field at the Journeyman level.

Emphasis in Lineman

Apprentice	48 Credits
Emphasis Requirements:	48 Credits
• LINE 1010	Lineman Apprentice 1A
• LINE 1020	Lineman Apprentice 1B
• LINE 1030	Lineman Apprentice 2A
• LINE 1040	Lineman Apprentice 2B
• LINE 2010	Lineman Apprentice 3A
• LINE 2020	Lineman Apprentice 3B
• LINE 2030	Lineman Apprentice 4A
• LINE 2040	Lineman Apprentice 4B

The lineman apprentice courses are offered for lineman apprentices to complete the Federal Bureau of Apprentice and Training related instruction requirements. The lineman apprentice courses may substitute for a portion of the Lineman Technology program requirements for an AAS degree.

Emphasis in Lineman Meter

Apprentice	48 Credits
Emphasis Requirements:	48 Credits
• LINE 1600	Meter Apprentice 1A
• LINE 1610	Meter Apprentice 1B
• LINE 1620	Meter Apprentice 2A
• LINE 1630	Meter Apprentice 2B
• LINE 2600	Meter Apprentice 3A
• LINE 2610	Meter Apprentice 3B
• LINE 2620	Meter Apprentice 4A
• LINE 2630	Meter Apprentice 4B

NOTE: Courses offered for lineman meter apprentice to complete the Federal Bureau of Apprenticeship Related instruction requirement.

Emphasis in Lineman Substation

Apprentice	48 Credits
Emphasis Requirements:	48 Credits
• LINE 1500	Lineman Substation Apprentice 1A
• LINE 1510	Lineman Substation Apprentice 1B
• LINE 1520	Lineman Substation Apprentice 2A
• LINE 1530	Lineman Substation Apprentice 2B
• LINE 2500	Lineman Substation Apprentice 3A
• LINE 2510	Lineman Substation Apprentice 3B
• LINE 2520	Lineman Substation Apprentice 4A
• LINE 2530	Lineman Substation Apprentice 4B

NOTE: The lineman substation apprentice courses are offered for lineman substation apprentices to complete the Federal Bureau of Apprentice and Training related instruction requirements.

Emphasis in Plumber

Apprentice	48 Credits
Emphasis Requirements:	48 Credits
• APPR 1410	Plumbing Independent 1A
• APPR 1420	Plumbing Independent 1B
• APPR 1430	Plumbing Independent 2A
• APPR 1440	Plumbing Independent 2B
• APPR 1450	Plumbing Independent 3A
• APPR 1460	Plumbing Independent 3B
• APPR 1470	Plumbing Independent 4A
• APPR 1480	Plumbing Independent 4B
• APPR 281R	Cooperative Work Experience (Must be repeated 7 times) (1.0)
• APPR 285R	Cooperative Correlated Class

NOTE: Plumbing is a compulsory licensed trade where the plumber performs any mechanical work in the installation, maintenance, repair, removal and replacement of water supply and water/liquid waste removal. Plumbers do both interior and exterior work in greatly varying job conditions. Education suggestions for high school subjects include basic mathematics, geometry, algebra, physics, welding, wood shop, blueprint reading, and mechanical drawing. The Independent Plumbing program requires 576 hours of related training and 8,000 hours of on-the-job training. Upon completion of these requirements students will be eligible to sit for the Utah State Plumbers Journeyman Examination.

Emphasis in Sheet Metal

Apprentice	48 Credits
Emphasis Requirements:	48 Credits
• APPR 1110	Sheet Metal 1A
• APPR 1120	Sheet Metal 1B
• APPR 1210	Sheet Metal 2A
• APPR 1220	Sheet Metal 2B
• APPR 2310	Sheet Metal 3A
• APPR 2320	Sheet Metal 3B
• APPR 2410	Sheet Metal 4A
• APPR 2420	Sheet Metal 4B

BS in Technology

Management 124 CREDITS

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in Carpenter Union

Apprentice (JATC) 45 Credits

Emphasis Requirements:	45 Credits
• APPR 1800	Carpenter Apprentice 1A
• APPR 1810	Carpenter Apprentice 1B
• APPR 1820	Carpenter Apprentice 2A
• APPR 1830	Carpenter Apprentice 2B
• APPR 1840	Carpenter Apprentice 3A
• APPR 1850	Carpenter Apprentice 3B
• APPR 1860	Carpenter Apprentice 4A
• APPR 1870	Carpenter Apprentice 4B
• BCCM 281R	Cooperative Work Experience (Must be repeated 4 times) (1.0)
• BCCM 285R	Cooperative Correlated Class

BS in Technology

Management 124 CREDITS

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in Electrical Construction

Apprentice 45 Credits

Emphasis Requirements:	45 Credits
• APPR 281R	Cooperative Work Experience (Must be repeated 4 times) (1.0)
• APPR 285R	Cooperative Correlated Class
• EART 1110	Electrical Apprentice 1A
• EART 1120	Electrical Apprentice 1B
• EART 1210	Electrical Apprentice 2A
• EART 1220	Electrical Apprentice 2B
• EART 2310	Electrical Apprentice 3A
• EART 2320	Electrical Apprentice 3B
• EART 2410	Electrical Apprentice 4A
• EART 2420	Electrical Apprentice 4B

BS in Technology

Management 124 CREDITS

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in Electrical Union

Apprentice (JATC) 45 Credits

Emphasis Requirements:	45 Credits
• EART 1300	Electrical Union Apprentice 1A
• EART 1310	Electrical Union Apprentice 1B
• EART 1320	Electrical Union Apprentice 2A
• EART 1330	Electrical Union Apprentice 2B
• EART 2330	Electrical Union Apprentice 3A
• EART 2340	Electrical Union Apprentice 3B
• EART 2350	Electrical Union Apprentice 4A
• EART 2360	Electrical Union Apprentice 4B
• EART 2370	Electrical Union Apprentice 5A

BS in Technology

Management 124 CREDITS

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in HVAC Apprentice 45 Credits

Emphasis Requirements: 45 Credits	
• ACRT 281R Cooperative Work Experience (Must be repeated 4 times) (1.0)	4.0
• ACRT 285R Cooperative Correlated Class	1.0
• HVAC 1130 HVAC 1B	5.0
• HVAC 1150 HVAC 2B	5.0
• HVAC 1170 HVAC 3B	5.0
• HVAC 1190 HVAC 4B	5.0
• HVAC 1200 HVAC 1A	5.0
• HVAC 1220 HVAC 2A	5.0
• HVAC 2200 HVAC 3A	5.0
• HVAC 2220 HVAC 4A	5.0

BS in Technology Management 124 CREDITS

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in Industrial Maintenance Apprentice 45 Credits

Emphasis Requirements: 45 Credits	
• APPR 281R Cooperative Work Experience (Must be repeated 4 times) (1.0)	4.0
• APPR 285R Cooperative Correlated Class	1.0
• DMT 1400 Industrial Maintenance 1A	5.0
• DMT 1410 Industrial Maintenance 1B	5.0
• DMT 1430 Industrial Maintenance 2B	5.0
• EART 1010 Industrial Maintenance 2A	5.0
Complete 10 credits from the following:	10.0
• DMT 1440 Industrial Maintenance 3B (5.0)	
• MET 1400 Industrial Maintenance 3A (5.0)	
• WELD 1300 Industrial Maintenance 3C (5.0)	
• WELD 1350 Industrial Maintenance 3D (5.0)	
Complete 10 credits from the following:	10.0
• EART 1020 Industrial Maintenance 4A (5.0)	
• HVAC 1110 Industrial Maintenance 4D (5.0)	
• WELD 1310 Industrial Maintenance 4B (5.0)	
• WELD 1320 Industrial Maintenance 4C (5.0)	

BS in Technology Management 124 CREDITS

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in Lineman Apprentice 48 Credits

Emphasis Requirements: 48 Credits	
• LINE 1010 Lineman Apprentice 1A	6.0
• LINE 1020 Lineman Apprentice 1B	6.0
• LINE 1030 Lineman Apprentice 2A	6.0
• LINE 1040 Lineman Apprentice 2B	6.0
• LINE 2010 Lineman Apprentice 3A	6.0
• LINE 2020 Lineman Apprentice 3B	6.0
• LINE 2030 Lineman Apprentice 4A	6.0
• LINE 2040 Lineman Apprentice 4B	6.0

BS in Technology Management 124 CREDITS

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in Line Meter Apprentice 48 Credits

Emphasis Requirements: 48 Credits	
• LINE 1600 Meter Apprentice 1A	6.0
• LINE 1610 Meter Apprentice 1B	6.0
• LINE 1620 Meter Apprentice 2A	6.0
• LINE 1630 Meter Apprentice 2B	6.0
• LINE 2600 Meter Apprentice 3A	6.0
• LINE 2610 Meter Apprentice 3B	6.0
• LINE 2620 Meter Apprentice 4A	6.0
• LINE 2630 Meter Apprentice 4B	6.0

BS in Technology Management 124 CREDITS

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in Lineman Substation Apprentice 48 Credits

Emphasis Requirements: 48 Credits	
• LINE 1500 Lineman Substation Apprentice 1A	6.0
• LINE 1510 Lineman Substation Apprentice 1B	6.0
• LINE 1520 Lineman Substation Apprentice 2A	6.0
• LINE 1530 Lineman Substation Apprentice 2B	6.0
• LINE 2500 Lineman Substation Apprentice 3A	6.0
• LINE 2510 Lineman Substation Apprentice 3B	6.0
• LINE 2520 Lineman Substation Apprentice 4A	6.0
• LINE 2530 Lineman Substation Apprentice 4B	6.0

BS in Technology Management 124 CREDITS

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in Plumber Apprentice 45 Credits

Emphasis Requirements: 45 Credits	
• APPR 1410 Plumbing Independent 1A	5.0
• APPR 1420 Plumbing Independent 1B	5.0
• APPR 1430 Plumbing Independent 2A	5.0
• APPR 1440 Plumbing Independent 2B	5.0
• APPR 1450 Plumbing Independent 3A	5.0
• APPR 1460 Plumbing Independent 3B	5.0
• APPR 1470 Plumbing Independent 4A	5.0
• APPR 1480 Plumbing Independent 4B	5.0
• BCCM 281R Cooperative Work Experience (Must be repeated 4 times) (1.0)	4.0
• BCCM 285R Cooperative Correlated Class	1.0

BS in Technology Management 124 CREDITS

The following Technical Area is available (see the Technology Management section of this catalog for complete degree requirement listings.)

Specialization in Sheet Metal Apprentice 48 Credits

Emphasis Requirements: 48 Credits	
• APPR 1110 Sheet Metal 1A	6.0
• APPR 1120 Sheet Metal 1B	6.0
• APPR 1210 Sheet Metal 2A	6.0
• APPR 1220 Sheet Metal 2B	6.0
• APPR 2310 Sheet Metal 3A	6.0
• APPR 2320 Sheet Metal 3B	6.0
• APPR 2410 Sheet Metal 4A	6.0
• APPR 2420 Sheet Metal 4B	6.0

See Course Descriptions section of the catalog for detailed course information. This department manages the following course prefixes:

- APPR, Apprectice
- AUT, Automotive Technology
- AVSC, Aviation Science
- DMT, Diesel Mechanics Technology
- EART, Electrical Automation and Robotics Technology
- HVAC, Heating, Ventilation, Air Conditioning
- LINE, Lineman Technology
- MET, Manufacturing Engineering Technology
- MTT, Machine Tool Technology
- WELD, Welding Technology