ALL COMPETENCY-BASED COURSES ARE TRANSFERRABLE INTO POST-SECONDARY COLLEGE PROGRAMS
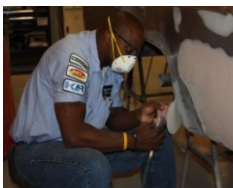
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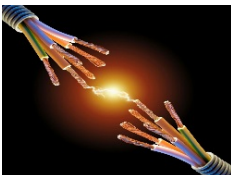
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BACHELOR'S DEGREE

AAS DEGREE IN GENERAL TECHNOLOGY
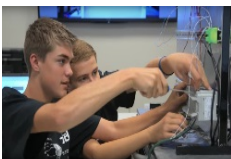
CERTIFICATE

All Bridgerland Technical College 900+ clock-hour certificates are worth 30 credits at Utah State University. That's half way to an Associate of Applied Science degree in General Technology (with no transfer costs)! Learn more about this exciting educational pathway at https://btech.edu/students/pathway/

COURSES & LOCATION	BRIEF DESCRIPTION	MAY REPEAT	BTECH PREREQUISITE	T1/ S1	T2/ S2	T3	SU	AVAILABLE HOURS	FEES
Animal Sciences Logan Campus - West	The Animal Sciences certificate program provides high school students with hands-on training to develop the skills needed to work as support staff in veterinary clinics, shelters, or other animal-based institutions. Skilled and experienced instructors with unique animal sciences backgrounds provide real-world training in relevant topics such as animal restraint, nursing care, radiology, lab procedures, blood collection, IV catheterization, dental cleanings, vaccines, physical exams, and client services. Students will also train on front office procedures. High school students transitioning to the adult program will be required to submit to a background check when they turn 18.	✓	**Juniors and Seniors only**	X	X	X		12:30 p.m. - 2:30 p.m.	$25 Lab Fee Consumable Supplies (per Tri/Sem) $67 – $133 dissection kit, stethoscope, scrubs, etc.
Auto Collision Logan Campus - Main	This fun course provides an opportunity to repair and paint modern vehicles. Instruction and hands-on labs provide experience on panels and fenders (personal vehicles are rarely allowed). Safety, environmental protection, fundamentals of collision repair, vehicle identification, estimating systems and terminology, frontal impact analysis, mechanical systems analyses, restraints, interior, glass, side/rear impact analysis, hazardous materials, personal safety, refinish safety, and corrosion protection are covered.	✓	None	X	X	X	X	8 a.m. – 2:30 p.m.	None (coveralls suggested but not required)

COURSES & LOCATION	BRIEF DESCRIPTION	MAY REPEAT	BTECH PREREQUISITE	T1/ S1	T2/ S2	T3	SU	AVAILABLE HOURS	FEES
Automated Manufacturing Logan Campus - West	Those in the Automated Manufacturing industry have some of the highest starting wages in the local area. Come learn valuable industry experience in industry-driven courses. Courses include: • Basic Electrical Theory and Wiring • Automation Technician Basics • Fluid Power Pneumatics • Fluid Power Hydraulics • Industrial Mechanics • Electrical Motor Controls • Electric Motors & Drives • Programmable Logic Controllers 1 • Sensors • Introduction to Industrial Robotics • Skills and Troubleshooting Certification • Plus, electives! Some of our employers who hire our graduates: https://btech.edu/certificate/automated-manufacturing	✓	None	X	X	X	X	7 a.m. -2:30 p.m. **Must register for a 2-hour block**	None

COURSES & LOCATION	BRIEF DESCRIPTION	MAY REPEAT	BTECH PREREQUISITE	T1/ S1	T2/ S2	T3	SU	AVAILABLE HOURS	FEES
AM|STEM ACADEMY Available at these 8 regional high schools: Bear River Box Elder Green Canyon Logan Mountain Crest Rich Ridgeline Sky View In Cooperation with **BRIDGERLAND** TECHNICAL COLLEGE **UtahState** University	The AM STEM Academy provides training at local high schools. Courses include: • Basic Electrical Theory and Wiring • Automation Technician Basics • 3D Modeling • Electronics Assembly and Soldering • Fluid Power Pneumatics • Electrical Motor Controls • Programmable Logic Controllers 1 • Sensors • Electronics Fundamentals DC • Electronics Fundamentals AC • Introduction to Industrial Robotics • Microcontrollers 1 • Microcontrollers 2 Students may start at their local high school as early as their Freshman or Sophomore year, with teacher approval. Many students attend year round for multiple years in a row. www.btech.edu/amstem	✓	None	X	X	X		Before School starting at 7:00 a.m. Mon - Fri Summers & Daytime available at Bridgerland Campuses	None
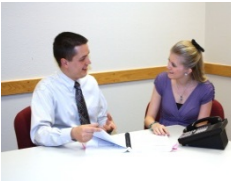
COURSES & LOCATION	BRIEF DESCRIPTION	MAY REPEAT	BTECH PREREQUISITE	T1/ S1	T2/ S2	T3	SU	AVAILABLE HOURS	FEES
Automotive Service Logan Campus - Main 	This course starts with an overview of automobile equipment and operating systems. Emphasis is placed on safety in the auto shop, common hand tools and equipment, and the operation of various systems. Students have the opportunity to complete minor repairs and preventative maintenance procedures on their personal vehicles. As students progress through the curriculum, they have an opportunity to learn Automotive Service Excellence (ASE) areas; including electrical systems, engine performance, manual drive trains, automatic transmissions, steering and suspension systems, brakes, and other ASE certified areas. This course is individualized and includes extensive hands-on experience. The courses follow the ASE Maintenance and Light Repair (MLR) Standards.	✔	None	X	X	X	X	8 a.m. - 2:30 p.m.	Approx. $5 safety equipment
Building Technology Logan Campus - Main 	**Basic Carpentry** – This course gives students hands-on experience in the actual construction of a home. Students will be involved in all phases, from planning and estimating, to foundation, framing, and finishing work. All classroom and building experiences are overseen by instructors who are experienced in general contracting and teaching. While the primary emphasis is residential construction, certain processes found in commercial building are also covered.	✔	None	X	X	X	X	8 a.m. - 2:30 p.m.	$40 refundable tool deposit

COURSES & LOCATION	BRIEF DESCRIPTION	MAY REPEAT	BTECH PREREQUISITE	T1/ S1	T2/ S2	T3	SU	AVAILABLE HOURS	FEES
Business Technology Logan Campus - Main	Learn a wide variety of skills for small and large business environments. Courses Include: • Accounting I & II • Adobe Suite • Business Math • Digital Applications • Entrepreneurship • Microsoft Application Software • QuickBooks Pro (Pre-requisite of Accounting I) • Social Media Marketing (Pre-requisite of Digital Applications)	✔	None	X	X	X	X	8 a.m. - 2:30 p.m.	$0 - $120 consumable workbooks depending on subject area
Culinary Arts Logan Campus - Main	Do you have a passion for preparing and serving food? Discover the world behind the food industry, one of the largest employers in the nation. You will gain expertise in basic food preparation, safety, sanitation, catering, table setting, and clean-up as well as the proper use of knives and other culinary equipment. You will have the opportunity to bring all of these skills, combined with proper waiting/waitressing skills, together as you participate in four (4), five-hour culinary events during the course of your enrollment. Hair net required. **SUMMER PROGRAM –** 8 a.m. – 1 p.m. ● Monday – Friday	✔	None	X	X	X	X	8 a.m. - 2:30 p.m. **Must register for a 2-hour block**	$35 Tool Rental with $10 refundable when returned
Dental Assisting Logan Campus - Main	Students will be trained in four-handed dentistry assisting; including, general dental procedures, taking digital radiographs, passing instruments, pouring models, infection control and sterilization, taking impressions, and mixing cements. A variety of general office management skills, including scheduling appointments, telephone etiquette, insurance, etc. will be taught. Additionally, students may receive their Utah Oral Health and Safety Radiation Certificate. High school students transitioning to the adult program will be required to submit to a background check when they turn 18.	✔	**Juniors and Seniors only**	X	X	X	X	8 a.m. - 2:30 p.m.	$15-$35 per course for consumable materials

COURSES & LOCATION	BRIEF DESCRIPTION	MAY REPEAT	BTECH PREREQUISITE	T1/ S1	T2/ S2	T3	SU	AVAILABLE HOURS	FEES
Diesel Logan Campus - Main	This program provides a series of courses starting with an overview of heavy duty equipment and operating systems. Emphasis is placed on safety, common hand tools, equipment, and operation of systems. Learn diagnosis, maintenance, and repair on over-the-road trucks, construction equipment, and agriculture equipment. Choose optional 4-wheel drive repair; including repair of transmissions, transfer cases, front/rear differentials, engine overhaul, tune-up, and performance testing.	✔	None	X	X	X	X	8 a.m. - 2:30 p.m.	Approx. $28 for safety glasses and coveralls
Drafting Logan Campus - Main	Learn the skills needed to become a drafter. Designers, architects, and engineers all require entry-level and advanced drafters to help produce drawings. Courses include: • 3D Modeling and Animation Design • 3D Parametric Solid Modeling • Architectural 3D Modeling and Rendering • Architectural Drafting • Basic Computer Aided Drafting • Technical Drafting Sequence of course delivery will be determined in a consultation between the student and/or instructor/department head.	✔	None	X	X	X	X	8 a.m. - 2:30 p.m.	None
Drug Dosages & Calculations Logan Campus - Main	This class is strongly suggested for students who plan a career in nursing, pharmacy, or medicine. Students will learn medical math, from the basics through IV dosages and calculation, as well as metric conversions. This course is encouraged for Pharmacy Technician students and a prerequisite for Bridgerland's Practical Nursing program. (Students must earn 80 percent or higher in the course to demonstrate competency requirements for Bridgerland programs.)		None	X	X	X	X	12:30 p.m. – 2:30 p.m.	Approx. $90 Book

COURSES & LOCATION	BRIEF DESCRIPTION	MAY REPEAT	BTECH PREREQUISITE	T1/S1	T2/S2	T3	SU	AVAILABLE HOURS	FEES
Electronic Engineering Technology Logan Campus - West	Electronic Engineering technicians are in high demand; come gain valuable industry experience in our industry driven courses. Courses include: • Basic Electrical Theory and Wiring • Electronics Assembly & Soldering • Electronics Fundamentals DC • Electronics Fundamentals AC • Semiconductor Devices • Digital Fundamentals • Microcontrollers 1 • Microcontrollers 2 • Drone Piloting UAVs • Mobile Robotics Platforms • Plus, electives! Some of our employers who hire our graduates: TTM Technologies, JUNIPER systems, ASI, INOVAR, Prismview, APG, Hill Air Force Base, BOEING, EP ELECTRIC POWER SYSTEMS, NORTHROP GRUMMAN, CAMPBELL SCIENTIFIC, ELITechGroup WESCOR BIOMEDICAL SYSTEMS, S&S ~ SANSEI https://btech.edu/certificate/electronic-engineering-technology/	✔	None	X	X	X	X	8 a.m. - 2:30 p.m.	None

COURSES & LOCATION	BRIEF DESCRIPTION	MAY REPEAT	BTECH PREREQUISITE	T1/S1	T2/S2	T3	SU	AVAILABLE HOURS	FEES
Fashion Merchandising and Development Logan Campus - Main	**Fashion Merchandising A** - Learn the ins and outs of fashion promotion while working on a full-scale fashion show. Learn how to identify and analyze body proportions and body types to successfully select and style fashion wardrobes and accessories. Also learn about the role of social media marketing in the fashion industry today and how to use Instagram and other key social media platforms to build and monetize your brand.		None	X				8 a.m. - 2:30 p.m.	$15-$20 consumable supply packet
	Fashion Merchandising B - Dive into the industries of men's and women's apparel and accessories by learning about specific styles and the construction details from which they're composed. Learn how fashion trends of the past have influenced the industry today, and how the heavy hitters of today's fashion design industry have found success. Try your hand at design as you go through the process of creating a collection on paper, gaining an understanding of fibers, construction, and textiles used in the production of apparel along the way.		None		X		X	8 a.m. - 2:30 p.m.	$15-$20 consumable supply packet
	Fashion Merchandising C - Discover the countless fashion career opportunities and the techniques needed to be successful. Learn the principles of store design and color psychology used in effective visual merchandising and display, as well as the techniques used in selling products and ideas in the retail industry. You will also have the opportunity to plan and produce a full-scale fashion show while gaining an understanding of promotional event planning.		None			X		8 a.m. - 2:30 p.m.	$15-$20 consumable supply packet

Course	Description		Prerequisite					Time	Fee
Financial Literacy Logan Campus - Main	Do you know where your last paycheck went? Have you asked yourself how your money can work for you? Then this course is the perfect training for you. Financial Literacy is designed to teach the basics of personal finance including the following topics: savings, budgets, debt, consumer awareness, credit bureaus, insurance, investments, retirement, savings plans, and real estate. *This course meets the Utah State Office of Education graduation requirement.*		None	X	X	X	X	8 a.m. - 2:30 p.m.	$100 (Online Book Code)
Heavy Equipment Operator Logan Campus - West 	This course is designed to provide an introduction to the heavy equipment industry and basic heavy equipment operation. Students will be instructed by trained operators that have been employed in the heavy equipment operations industry. Each student will receive hands-on experience with the available equipment. Course modules include: • OSHA 10 Hour Construction Safety Certification • Orientation to the Trade • Heavy equipment safety • Identification of Heavy equipment • Basic Operator Techniques • Introduction to Earth Moving • Determine and establish grades • Excavation Math • Operate loaders • Operate backhoes • Operate excavators • Operate skid steers	✓	Valid Driver's License	X	X	X	X	8 a.m. - 2:30 p.m.	$25 Fee (Optional for OSHA certification)

Information Technology (IT) Logan Campus - West	Students may choose from the following courses when prerequisites listed are met:	✓	PC Pro is a prerequisite for Networking Tech. Networking Tech is a prerequisite for AWS, Linux, Security Essentials and Intro to Ethical Hacking	X	X	X	X	8 a.m. - 2:30 p.m. **Must register for a 2-hour block**	$5 - $30 Fee Per Course (CompTIA/ AWS industry exam fees are extra)
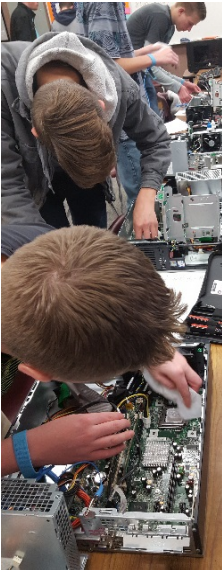
Students may choose from the following courses when prerequisites listed are met:

PC Professional ($30 fee)
- Learn foundational IT concepts, including installing, configuring, and troubleshooting PC hardware and software. Students will tear-down and rebuild a PC and laptop as part of the course.

Networking Technology ($30 fee)
- Gain the skills to configure, manage, and troubleshoot wired and wireless networks.

Security Essentials ($30 fee)
- Learn how to secure networks from unauthorized activity through effective security policy, authentication, and encryption.

Intro to Ethical Hacking ($5 fee)
- Sample both defensive and offensive security in an introductory, projects-based course.

Linux Essentials ($5 fee)
- Learn the basics of the Linux operating system, including command line, file management, and open-source applications.

AWS Cloud Foundations (Amazon Web Services) ($5 fee)
- Gain a basic understanding of cloud concepts, AWS services, security, and architecture.

IT STEM Academy (See next page for details)
- Join students from 8 local high schools in an extracurricular IT STEM Academy. Courses and labs are completed from YOUR high school at no cost.

CompTIA certifications (A+, Network+, Security+) and AWS Certified Cloud Practitioner certifications are available with advanced preparation. Exam fees are extra.

IT | STEM ACADEMY

Available at 8 regional high schools

Box Elder
Bear River
Green Canyon
Logan High
Mountain Crest
Rich High
Ridgeline
Sky View

In cooperation with

BRIDGERLAND TECHNICAL COLLEGE

UtahState University

The IT STEM Academy provides IT training at your high school. Available in grades 9 through 12, students may join at multiple entry points during the year.

IT STEM courses and labs are funded through a grant at no cost to high school students.

Year 1 Course Schedule:
- PC Professional
- Raspberry Pi
- Web Development Essentials
- Python Programming

Year 2 Course Schedule:
- Networking Technology
- AWS Cloud Foundations (Amazon Web Services)
- Linux Essentials
- Intro to Ethical Hacking

Additional electives are available summers or post high school, including:
- Security Essentials
- CompTIA Certifications in A+, Network+, Security+ *
- Additional Web & Mobile Development courses

* CompTIA & AWS certification exams available for an additional fee.

Students can receive up to 150 hours of certificate credit for CTE/technology classes taken at their high school.

For more information, contact Bonnie Campbell, IT STEM Coordinator, bcampbell@btech.edu.

✓

PC Pro is a prerequisite for all courses.

Network Tech is a prerequisite for Cybersecurity & Ethical Hacking

See Coordinator for elective prerequisites

X X X X

After School Mon - Thurs 3 p.m. – 4:15 p.m.

Summers available at Bridgerland campuses.

None

(CompTIA industry exam fees are extra)

Interior Design Logan Campus - Main 	Are you a creative mind looking to develop skills in design? Learn the basics of interior design; including relevant design, furniture, and roof styles used today. You will learn how to translate your creative ideas and inspirations into 3D designs for residential and commercial spaces using software programs such as Photoshop, Illustrator, and InDesign. You will also create a brand for yourself as a future designer and build a professional portfolio from your work. Fees are used to provide supplies and materials for creative exercises.	✓	None	X	X	X	X	8 a.m. - 2:30 p.m.	None
Machining Technology Logan Campus - Main 	Do you enjoy making things, being creative, and solving problems? Manufacturing is the largest job market in Cache Valley, of which machining is a huge part. First trimester/semester students will learn the basics of mill and lathe operation. Students returning for a second trimester/semester will have the opportunity to participate in NASA's HUNCH program, where they will use computer-controlled machining to manufacture flight hardware for the International Space Station. Students will learn: • Basic and advanced manual mill & lathe • CAD/CAM using Mastercam • Machine programming • Basic and advanced parts inspection	✓	None	X	X	X	X	8 a.m. - 2:30 p.m.	$10-20 supplies & workbooks Advanced Curriculum (after first tri): $75-$128
Meat Services Logan Campus - Main 	This hands-on course prepares students to work in an entry-level meat business with excellent career opportunities and high earning potential. Students learn harvesting of beef, pork, and lamb; wholesale, retail, and custom meat cutting practices; knife care, inspection, merchandising, and public relations. This department is equipped with state-of-the-art equipment and provides an amazing environment for meat cutting training.	✓	None	X	X	X	X	8 a.m. - 2:30 p.m.	$20 Knife Rental with $10 refundable when returned (Approx. $120 to purchase)

Program	Description		Prerequisite					Time	Cost
Media Design Logan Campus - Main	Learn tools and techniques to develop creative internet and print materials. Develop an understanding of the current software applications and methods for design. Build a strong foundation in the diverse fields of graphic design, digital video, and multimedia design. Courses include: • Computer Graphic Design • Computer Illustration • Desktop Publishing • Web Design • Video Production • Animation Sequence of course delivery will be determined in a consultation between the student and/or instructor/department head.	✓	None	X	X	X	X	8 a.m. - 2:30 p.m.	None
Medical Assisting Logan Campus - Main	The Medical Assisting program prepares students to become an integral part of today's healthcare system. Highly skilled instructors provide hands-on, one-on-on instruction to students as they take vital signs, complete patient histories, administer injections, perform EKGs, learn phlebotomy skills, and assist with routine and specialty examinations as well as minor surgical procedures. Students also become proficient in administrative skills including, scheduling, insurance, coding, basic accounting, medical office banking, and telephone techniques. High school students transitioning to the adult program will be required to submit to a background check when they turn 18.	✓	Medical Terminology (College Level with B or higher) Seniors Only	X	X	X	X	8 a.m. – 10 a.m.	$100-$310 for consumable materials
Medical Terminology Logan Campus - Main	This class enables students to understand the language of medicine, which is based in Greek and Latin. Students learn the terminology used in medical transcription, medical assisting, nursing assisting, nursing, physical therapy, and all other health-related fields. This is a prerequisite for the Bridgerland Practical Nursing and Medical Assisting programs and is strongly recommended for students who plan to pursue a health care career. (Students must earn 80 percent or higher in the course to demonstrate competency requirements for Bridgerland programs.)		None	X	X	X	X	8 a.m. – 10 a.m. 12:30 p.m. - 2:30 p.m.	Approx. $70 Book

Nursing Assistant (CNA) Logan Campus - Main	Students learn basic nursing assistant skills needed to work in a hospital, nursing home, or home health agency. Students prepare to take the Certified Nursing Assistant state board exam for state certification. The exam is optional and can be taken up to one year after course completion. Students must have a reading level high enough to enable them to pass the class and take the state board exam if they choose. Federal and State guidelines mandate that students seeking certification must pass all course exams with 75 percent or higher. A 24-hour externship in a nursing home is a course requirement and 100 hours of training is required to receive certification. Attendance policies are rigidly enforced. Students must provide their own transportation to clinical facilities. Recommended for the Bridgerland Practical Nursing program and required for most nursing programs.	Must be 16	x	x	x	x	8 a.m. – 10 a.m. 12:30 p.m. - 2:30 p.m. (Semester only offered 8-10)	Approx. $140-$260 (includes $130 in optional supplies & testing fee)
Pharmacy Technician Logan Campus - Main	Courses cover State and Federal law for pharmacy, key concepts in the workplace, terminology, calculations, prescriptions and prescription labels, routes and formulations, non-sterile compounding, basic biopharmaceutics, as well as common drugs and their uses. A special emphasis is placed on retail pharmacy settings. Hands-on lab skills used in pharmacy will be taught in conjunction with key concepts. **Students must enroll for three trimesters or two semesters.** High school students transitioning to the adult program will be required to submit to a background check when they turn 18.	Seniors Only	x	x	x		8 a.m. – 10 a.m.	$60 Lab Fee (One-time fee for school year)
Real Estate Logan Campus - Main	New Real Estate home ownership epitomizes the "American Dream," and buying a home is the biggest investment most people make in their lifetime. Students enrolled in this course will be introduced to understanding the sales/marketing process, investing in real estate, and the many steps in buying and selling a home. The focus of the course also includes financing sources, customer relations, the use of advertising and the media, and careers in real estate. This is a one Trimester/Semester course and is an exploratory experience that will not result in a real estate license.	None	x	x	x		8 a.m. – 10 a.m.	None

Course	Description		Grade					Time	Fee
Web & Mobile Development Logan Campus - West	Are you interested in creating and designing in digital spaces? Learn the fundamentals of coding, front-end and back-end development, and web design for various digital environments. You will also explore the areas of online marketing, photography, cinematography, freelancing, and more. You will discover and develop your own creativity and multimedia expertise through hands-on coding projects as your instructors lend one-on-one support and mentorship along the way.	✓	None	X	X	X	X	8 a.m. - 2:30 p.m. **Must register for a 2-hour block**	None
Welding Technology Logan Campus - Main	Offers basic welding training in seven welding processes. Learn entry-level skills for production and industrial employment. Blueprint reading, welding inspection, basic metallurgy, layout, and fabrication skills are taught with hands-on welding. Basic courses are offered every trimester.	✓	None	X	X	X	X	8 a.m. - 2:30 p.m.	Supplies and workbooks approx. $0-$80 depending on number of courses taken
Wildland Firefighter Logan Campus - Main	Enjoy the outdoors? Wildland fire fighters make good money! Travel the nation exploring very remote areas while maintaining a high level of fitness, adrenaline rush, and protecting people and their property. Learn how weather, topography, and other factors influence fire behavior. Wildland fire experience and knowledge is beneficial to those interested in pursuing careers in fire management, wildlife management, field biology, ecology, forestry, or range management. If the student is or will be 18 years old within 1 year of finishing this course, they may certify as a Wildland Firefighter. In order to certify, they will have to pass a fitness test (walk 3 miles in 45 min with a 45 lb. pack on).		Junior and Senior Only		X			8 a.m. – 10 a.m. **Must register for a 2-hour block**	$10 Fee Approx. $20 books/supplies

NOTE: Summer sections are from 8 a.m. to 12 p.m. unless otherwise noted. No tuition for Utah residents.