






PROGRAM & LOCATION	BRIEF DESCRIPTION	MAY REPEAT	BATC PREREQ.	T 1	T 2	T 3	S	E-LEARNING	AVAILABLE HOURS	FEES
Automated Manufacturing & Robotics Brigham City Campus 	Basic Electrical Theory and Soldering (First Trimester/Semester) Explore basic electrical topics including electrical fundamentals, circuits, systems and protection, alternating current, motors, generators, transformers, grounding and bonding. Learn to bend and install conduit. Wire up several circuits in labs consisting of common household circuits and test with voltage applied. Develop the ability to solder and desolder connectors, components, and printed circuit boards using industry standards. Topics include: component identification, safety practices, soldering, desoldering, anti-static grounding, and surface mount techniques.	✓	None	X			X	Valid, appropriate e-mail address required.	8-2:30	\$50 Lab Fee
	Electrical Motor Controls (Second Trimester) Use wiring diagrams and schematics to wire basic circuits including control circuits, power circuits, over current protection devices, DC motor controls, and AC motor frequency drive controls. Identify the working characteristics of basic electrical motor control devices such as: push buttons, selector switches, over current devices, control relays, overload devices, contactors, and overload blocks. Install, operate and troubleshoot basic electrical motor control systems. Wire basic control circuits such as power, reversing, interlocking, plugging, inching, timing, automatic starting and speed control circuits from schematics.	✓	None		X		X		8-2:30	\$50 Lab Fee
	Programmable Logic Controllers and Drone Piloting (Third Trimester/Second Semester) Learn to program the brains of all automation. Explore ladder logic and programming techniques of (PLCs) Programmable Logic Controllers with hands-on experience. PLC hands-on trainers will be provided. Discover the basic hardware of various PLC systems that will be used for wiring and programming. The student will be expected to program and commission several PLC systems. PLC knowledge will set you apart from all other technicians and engineers in automation and robotics. End the year with Drone Piloting. Learn cutting edge drone technology, function, assembly, programming, applications, and how to fly them properly. Do's and Don'ts of drones with hands-on training including examples of real-world applications like video, imaging, and mapping. Learn FPV (first person video) with drones, ground control, connections, programming flight patterns, future of drones, and employment opportunities. Simulators and drones will be provided in class.	✓	None			X	X		8-2:30	\$50 Lab Fee

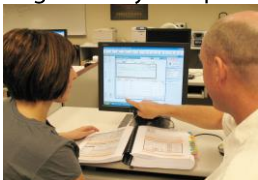
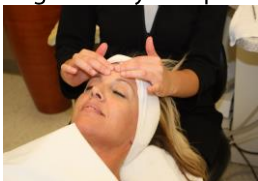


PROGRAM & LOCATION	BRIEF DESCRIPTION	MAY REPEAT	BATC PREREQ.	T 1	T 2	T 3	S	E-LEARNING	AVAILABLE HOURS	FEES
Automated Manufacturing & Robotics (Cont.) Advanced Composites Brigham City Campus 	Introduction to Advanced Composites This course gives an overview of composite technology, safety, matrix technology, liquid resins and prepregs. It covers fiber types, forms of reinforcements, layup technology, composite structural design and service life considerations. Hands on labs will accompany all learning modules	✓	None	X	X	X	X	Valid, appropriate e-mail address required.	8-12 Must register for a 2 hour block	\$50 plus materials
	Core Materials and Composite Repair This course covers core materials such as sandwich construction, balsa core, foam cores, honeycomb cores, other core types, design criteria, and fabrication. The course moves into repair of composite structures. Topics include types of damage, component identification, paint removal, damage removal, repair design, vacuum bagging materials for repair, scarfing, patching, and curing methods.	✓	Introduction to Advanced Composites	X	X	X	X			\$50 plus materials
	Composites Molding and Tooling This course covers molding methods, practices, and introduction to tooling in composite fabrication.	✓	Introduction to Advanced Composites	X	X	X	X			\$50 plus materials
	Composites Project Build 1 This course covers building a composite product as a class project. Topics covered include inspection and test methods, adhesive bonding and fastening. Also includes bonding methods, types of adhesives, surface preparation, cleaning, bonding to core materials, bonding to thermoplastic composites, joint design, drilling and fastening.	✓	Introduction to Advanced Composites Core Materials and Composite Repair Composites Molding and Tooling	X	X	X	X			\$50 plus materials





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AM STEM Brigham City Campus 	3D Modeling, Workplace Safety, and Manufacturing Process Basics (First Trimester/First Semester) First half introduces SolidWorks software as a 3-D design tool. Learn creation, retrieval and modification of 3-D and layout drawings. Get SolidWorks certified. Ends with creation of a 3-D printed part. Learn basic terms and skills associated with manufacturing materials and processes. Hands on lab topics include P&ID print reading (Piping and Instrumentation Diagrams), construction and mechanical drawings, electrical schematics, making injection molded parts and exciting life-saving workplace safety topics.	✓	None	X			X	Valid, appropriate e-mail address required.	7-8 AM	None
	Automated Manufacturing Basics and Fluid Power Pneumatics (Second Trimester) Learn basic terms and skills associated with automation, manufacturing, and materials. Hands on lab topics include maintenance math, using precision measurement tools and meters, making and torquing fasteners, using hand and power tools. Learn to simulate automated systems with Automation Studio. Experience real world hands-on fluid power principles and circuitry used in automation and robotics. Construct fluid power circuits with industry components provided in lab. Learn pneumatic system operation and symbols including gauges, directional control valves, cylinders, motors, compressors, filters, regulators and lubricators. Learn how to install, troubleshoot, and repair pneumatic systems.	✓	None		X		X		7-8 AM	None
	Microcontrollers and Intro to Robotics (Third Trimester/Second Semester) First half, study microcontroller architecture, programming, and interfacing. Emphasis placed on experiments using Arduino Microcontrollers, circuit build, program execution and interfacing. Students put together a series of projects that they design, build, program and test for the instructor's approval. Second half learn basic sensing and locomotion principles as you build and control a robotic arm that will be used for selected activities from manual robot control to computer program mode. Finishes with programming industrial grade robots used in automated manufacturing	✓	None			X	X		7-8 AM	None




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Business Technology Brigham City Campus 	<p>Want to run your own business or work in a business career? Learn topics of your choice. Each course successfully completed will receive credit in the full-time program if enrolled within one year of graduation. Students select from the following subject(s):</p> <ul style="list-style-type: none"> Accounting I & II Business Math Microsoft Application Software QuickBooks Pro (Pre-requisite of Accounting I) Entrepreneurship and Small Business Management Operating System Fundamentals <p><i>*High School Articulation – Students completing business courses at the high school with a “B” grade or better may receive credit towards completion of the full-time Business Technology program.</i></p>	✓	None	X	X	X	X	None	8-2:30	\$0 - \$120 Consumable workbooks
Cosmetology Brigham City Campus 	<p>Theory and practical instruction in all phases of cosmetology and barbering including, professionalism, sanitation, finger waves, pin curls, roller sets, thermal styling, braiding, hair cutting, perming, coloring, chemical relaxing, hair removal/waxing, manicuring, pedicuring, acrylic nails, facials, extensions, histology of skin and nails, and barbering. After successful completion of the cosmetology competencies and 1600 or 2000 hours, students will be prepared to take the Cosmetology Barber license state board exam.</p> <p>SUMMER PROGRAM – 8:30 am – 2:30 pm • Monday through Friday</p>	✓	16 years old Students must attend one theory class per day; last theory class starts at 12:00 noon.	X	X	X	X	None	8-4:30	Materials approx. \$345 Optional text \$145




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Dental Brigham City Campus 	Introduction to Dental Assisting – Required prior to taking the Dental Assisting program. Provides students with a brief introduction to a variety of dental assisting skills. Students learn moisture control, instrument transfer, charting, oral anatomy, and tooth numbering.	✓	None	X	X	X	X	Valid, appropriate e-mail address required.	8-12 Logan Campus 12-2:30 Brigham Campus	Dental packet and kit \$15
	Dental Terminology – Provides framework for Dental Assisting Program. Students learn prefixes, suffixes, and dental definitions.	✓	Intro to Dental Assisting	X	X	X	X			Approx. \$73
	Dental Assisting – For students who plan to pursue a career in the dental field. Learn the basics of four-handed dentistry as well as to chart teeth, pass instruments, position patients, mount x-rays, take impressions, pour models, mix cements, and assist the dentist. Students will also learn a variety of general office management skills (scheduling appointments, telephone etiquette, filing charts, billing insurance, etc.). Students interested in transitioning into the adult program need to successfully pass a criminal background check.	✓	Intro to Dental Assisting and Dental Terminology	X	X	X	X			Books and supplies approx. \$1000
Drafting Brigham City Campus 	Learn the skills needed to become a drafter. Designers, architects, and engineers all require entry-level and advanced drafters to help produce their drawings. Content areas include: <ul style="list-style-type: none"> • 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	None	8-2:30	None






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Electronics Brigham City Campus 	Basic Electrical Theory and Soldering (First Trimester) Explore basic electrical topics including electrical fundamentals, circuits, systems and protection, alternating current, motors, generators, transformers, grounding and bonding. Learn to bend and install conduit, size and install junction boxes, panels, and conductors for motor control circuits. Wire up several circuits in labs consisting of common household circuits and test with voltage applied. Develop the ability to solder and desolder connectors, components, and printed circuit boards using industry standards. Topics include: component identification, safety practices, soldering, desoldering, anti-static grounding, and surface mount techniques.	✓	None	X			X	Valid, appropriate e-mail address required.	8-2:30	\$50 Lab Fee
	Basic Electronics DC (Second Trimester) This course is an introduction to the DC concepts and fundamentals of electronics devices, systems, and circuits. Topics include direct current electricity, Ohm's Law, Series and Parallel circuits, network theorems, resistance, capacitance, and inductance. Hands-on labs will be constructed and tested throughout the course using prototype boards, common electronic components, meters, power supplies, and other measuring equipment.	✓	None		X		X		8-2:30	\$50 Lab Fee
	Digital Fundamentals (Third Trimester) Learn the basic theory of digital circuits and programmable logic devices (PLDs). Binary, octal, and hexadecimal number systems, truth tables, logic gates, flip-flops, counter, shift registers, interfacing techniques, sequential logic circuits, combinational logic circuits, memory systems, digital busses, A/D and D/A conversions will be covered. Understand the difference between analog and digital electronics circuits. Interface to real-world inputs and outputs.	✓	None			X	X		8-2:30	\$50 Lab Fee

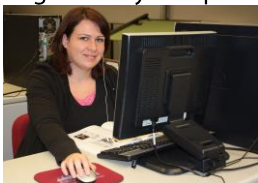



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Information Technology (IT) Brigham City Campus 	<p>Students may choose from the following courses when prerequisites are met:</p> <p>A+ Computer Technician</p> <ul style="list-style-type: none"> Learn to install, configure, and troubleshoot hardware and software on Windows, Linux, and Mac systems. Students will tear-down and rebuild a PC as part of the course. <p>Networking Technology</p> <ul style="list-style-type: none"> Gain the essential knowledge and skills to design, configure, manage, and troubleshoot wired and wireless networks. <p>Introduction to Cyber Security</p> <ul style="list-style-type: none"> Learn how to recognize threats that could harm your computer system or network. Course will teach beginning cyber security terminology and concepts. <p>Introduction to Fiber Optics</p> <ul style="list-style-type: none"> Learn the fundamentals of fiber optics and how to clean, inspect, and maintain fiber optic cables and connectors. Students will perform basic trouble shooting and testing during hands-on labs. <p>Operating Systems Essentials – Mac</p> <ul style="list-style-type: none"> Learn how to navigate, control, and get the most out of a Mac computer. <p>Introduction to Information Technology</p> <ul style="list-style-type: none"> This course provides a basic overview of the history of computer technology and the career options available in IT. <p>Computer Literacy for IT</p> <ul style="list-style-type: none"> This course introduces students to computer hardware, operating systems, and the Internet. Students will also learn word processing, spreadsheet, and database applications. <p><i>*Upon successful completion of a course, students can earn credit towards the BATC adult IT certificate. A+ and Network+ CompTIA certification is available with advanced preparation.</i></p>	✓	<p>A+ Computer Tech. is a prerequisite for Networking Tech.</p> <p>No prerequisites for all other courses</p>	X	X	X	X	Valid, appropriate e-mail address required.	8-2:30 Must register for a 2-hour block	<p>A+ Computer: \$55</p> <p>Networking: \$55</p> <p>All others: \$5</p>



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Health Sciences Brigham City Campus   	<p>Are you interested in health and wellness? Are you able to remain calm in a crisis? Do you have an interest in working with people who are injured or sick, promoting wellness, and sharing knowledge with others? Whether you enjoy managing health care information or working directly with people, there are a wide variety of health care career opportunities to explore within the largest employment industry in the United States. Health Science careers combine medical information, current technology, and the human touch to administer necessary care around the clock, responding to the needs of millions of people—from newborns to the injured or critically ill.</p> <p>Some prerequisites and/or age restrictions may apply. Current courses offered at this location are Certified Nurse Assistant (CNA) and Medical Terminology.</p> <p>State attendance/competency regulations, and/or may require fees for State testing. School and/or medical excused absences are NOT allowed and will still be reported as missed time to regulatory agencies and may prohibit certification/ licensure. Students involved in extracurricular activities involving multiple school absences may not want consider enrolment in these types of regulated courses (e.g., CNA).</p>	✓	<p>Some age requirements and/or prerequisites may exist.</p> <p>Students transitioning to BATC Health Science adult certificate programs need to be able to successfully pass a criminal background check.</p>					Valid, appropriate e-mail address required.	8-11:30	<p>\$80-\$162 includes optional fees</p> <p>Consumable textbook, supplies, student notes, and State testing fees may be required for purchase</p>



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Media Design Brigham City Campus 	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. Content areas include: <ul style="list-style-type: none"> • 3D Modeling and Animation • Computer Graphic Design • Computer Illustration • Desktop Publishing • Digital Video Editing/Video Production • Multimedia Sequence of course delivery will be determined in a consultation between the student and/or instructor/department head.	✓	None	X	X	X	X	None	8-2:30	None
Web & Mobile Development Brigham City Campus 	Web Development Essentials Learn the fundamentals of web design using basic HTML and CSS coding. <ul style="list-style-type: none"> • Upon successful completion of course, students can earn credit towards the BATC adult Web & Mobile Development certificate. 	✓	None	X	X	X	X	Valid, appropriate e-mail address required.	8-2:30 Must register for a two hour block.	None

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