



PROGRAM & LOCATION	BRIEF DESCRIPTION	MAY REPEAT	BATC PREREQ.	T 1	T 2	T 3	S	E-LEARNING	HOURS	FEES
<b>Automated Manufacturing &amp; Robotics</b> Brigham City Campus 	<b>Microcontrollers and Intro to Robotics (First Trimester)</b> 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	Valid, appropriate e-mail address required.	8-2:30	\$50 Lab Fee
	<b>3D Modeling for Automation and Composites (Second Trimester)</b> 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. Second half learn basic terms and skills associated with automation, manufacturing, materials, and processes. Hands on lab topics include maintenance math, using precision measurement tools and meters, making and torqueing fasteners, using hand tools, using power tools, print reading of construction and mechanical drawings, making molded parts, materials and processes.	✓	None		X		X		8-2:30	\$50 Lab Fee
	<b>Fluid Power (Third Trimester)</b> Experience real world hands-on fluid power principles and circuitry used in automation and robotics. Topics include force, energy transmission, symbols, and schematics. 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. Some exciting life-saving workplace safety topics will be covered.	✓	None			X	X		8-2:30	\$50 Lab Fee



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<b>AM STEM</b> Brigham City Campus 	<b>Microcontrollers and Intro to Robotics (First Trimester)</b> 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	Valid, appropriate e-mail address required.	7-8 AM	None
	<b>3D Modeling and Automated Manufacturing Basics (Second Trimester)</b> 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. Second half learn basic terms and skills associated with automation, manufacturing, materials, and processes. Hands on lab topics include maintenance math, using precision measurement tools and meters, making and torqueing fasteners, using hand tools, using power tools, print reading of construction and mechanical drawings, making molded parts, materials and processes.	✓	None		X		X		7-8 AM	None
	<b>Fluid Power (Third Trimester)</b> Experience real world hands-on fluid power principles and circuitry used in automation and robotics. Topics include force, energy transmission, symbols, and schematics. 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. Some exciting life-saving workplace safety topics will be covered.	✓	None			X	X		7-8 AM	None



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<b>Business Technology</b> Brigham City Campus 	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): <ul style="list-style-type: none"> <li>• Accounting I &amp; II</li> <li>• Business Math</li> <li>• Microsoft Application Software</li> <li>• QuickBooks Pro (Pre-requisite of Accounting I)</li> <li>• Entrepreneurship and Small Business Management</li> <li>• Operating System Fundamentals</li> </ul> <p><b>*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.</b></p>	✓	None	X	X	X	X	None	8-2:30	\$0 - \$120 Consumable workbooks
<b>Cosmetology</b> Brigham City Campus 	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 2000 hours, students will be prepared to take the Cosmetology Barber license state board exam. <p><b>SUMMER PROGRAM – 8:30 am – 2:30 pm • Monday through Friday</b></p>	✓	<b>16 years old</b> <b>Students must attend one theory class per day; last theory class starts at 12:00 noon.</b>	X	X	X	X	None	8-4:30	Materials approx. \$235 Optional text \$110



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<b>Dental</b> Brigham City Campus 	<b>Introduction to Dental Assisting</b> – <b>Required prior to taking the Dental Assisting program.</b> 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.	8-2:30	Dental packet and kit \$15
	<b>Dental Terminology</b> – Provides framework for Dental Assisting Program. Students learn prefixes, suffixes, and dental definitions.	✓	Intro to Dental Assisting	X	X	X	X		8-2:30	Approx. \$73
	<b>Dental Assisting</b> – 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.). <b>Students interested in transitioning into the adult program need to successfully pass a criminal background check.</b>	✓	Intro to Dental Assisting and Dental Terminology	X	X	X	X		8-2:30	Books and supplies approx. \$1000
<b>Drafting</b> 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"> <li>• 3D Modeling and Animation Design</li> <li>• 3D Parametric Solid Modeling</li> <li>• Architectural 3D Modeling and Rendering</li> <li>• Architectural Drafting</li> <li>• Basic Computer Aided Drafting</li> <li>• Technical Drafting</li> </ul> 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	



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<b>Electronics</b> Brigham City Campus 	<b>Basic Electrical Theory and Soldering (First Trimester)</b> 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
	<b>Basic Electronics DC (Second Trimester)</b> 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
	<b>Digital Fundamentals (Third Trimester)</b> 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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<b>Information Technology (IT)</b> Brigham City Campus 	<b>A+ Computer Technician—Hardware</b> <ul style="list-style-type: none"> <li>• Tear down and assemble real PCs</li> <li>• Identify, troubleshoot, and repair hardware</li> <li>• Install and configure PC components</li> </ul>	✓	None	X	X	X	X	Valid, appropriate e-mail address required.	8-2:30 <b>Must register for a 2-hour block</b>	\$30 Lab fee
	<b>A+ Computer Technician—Operating Systems</b> <ul style="list-style-type: none"> <li>• Install and manage operating systems</li> <li>• Learn basic security and networking</li> <li>• Create virtual machines</li> </ul> <p><i>Successful completion of both A+ courses fulfills the PC Professional component on BATC's adult IT certificate and prepares students to pursue A+ CompTIA industry certification.</i></p>	✓	A+ Hardware recommended	X	X	X	X	Valid, appropriate e-mail address required.	8-2:30 <b>Must register for a 2-hour block</b>	\$30 Lab fee
	<b>Network+</b> Gain the essential knowledge and skills to design, configure, manage, and troubleshoot wired and wireless networks. CompTIA Network+ certification is available.	✓	A+ Hardware & OS recommended	X	X	X	X	Valid, appropriate e-mail address required.	8-2:30 <b>Must register for a 2-hour block</b>	\$30 Lab fee
	<b>Web Development Essentials</b> Learn the fundamentals of web design with a focus on basic HTML and CSS coding. Course includes a brief introduction to JavaScript.	✓	None	X	X	X	X	Valid, appropriate e-mail address required.	8-2:30 <b>Must register for a 2-hour block</b>	None



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<b>Health Sciences</b> 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><b>Some prerequisites and/or age restrictions may apply. Current courses offered at this location are Certified Nurse Assistant (CNA) and Medical Terminology.</b></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><b>Some age requirements and/or prerequisites may exist.</b></p> <p>Students transitioning to BATC Health Science adult certificate programs need to be able to successfully pass a criminal background check.</p>		X	X	X	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> <p><b>CNA students must register for a 2-hour block</b></p>



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<b>Media Design</b> Brigham City Campus 	<p>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:</p> <ul style="list-style-type: none"> <li>• 3D Modeling and Animation</li> <li>• Computer Graphic Design</li> <li>• Computer Illustration</li> <li>• Desktop Publishing</li> <li>• Digital Video Editing/Video Production</li> <li>• Multimedia</li> </ul> <p>Sequence of course delivery will be determined in a consultation between the student and/or instructor/department head.</p>	✓	None	X	X	X	X	None	8-2:30	
<b>Web &amp; Mobile Development</b> Brigham City Campus 	<p>Students can choose from the certificate program curriculum (available at <a href="http://www.batc.edu/programs">www.batc.edu/programs</a>). Sequences of course delivery will be determined in a consultation between the student and instructor/department head. The exciting field of Web Development includes such areas as website design and management, application programming, mobile application development. Areas of concentration include:</p> <ul style="list-style-type: none"> <li>• Web design and development covers HTML5, CSS, JQuery, PHP and MySQL.</li> <li>• Graphic design with Adobe Photoshop.</li> <li>• Programming of applications with Java</li> <li>• Mobile app development for iOS and Android platforms.</li> </ul>	✓	None	X	X	X	X	Valid, appropriate e-mail address required.	8-2:30	None

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