

Course Sequencing		
Year	Quarter	Subject
First Year	Fall	<a href="#">BPR 105</a> (Blueprint Reading) <a href="#">MATH 100</a> (Algebraic Tools for Vocational Application) <a href="#">MT 111 &amp; 112</a> (Basic Machining Technology 1 & Lab) ***Basic Machining short-term certificate is earned upon successful completion of this quarter.
	Winter	<a href="#">MT 121 &amp; 122</a> (Basic Machining Technology 2 & Lab) <a href="#">MT 102</a> (Solid Works(R) - optional)
	Spring	<a href="#">MT 131 &amp; 132</a> (Basic Machining Technology 3 & Lab) <a href="#">MT 202</a> (Solid Works(R) 2 - optional) ***Manufacturing Technology 1 year certificate is earned upon successful completion of this quarter. If MT 102 and 202 are taken, a Solid Modeling certificate is also earned.
	Summer	<a href="#">PSYC&amp; 100</a> (General Psychology) OR <a href="#">PSYC 103</a> (Applied Psychology) OR <a href="#">BUS 271</a> (Human Relations Business)
Second Year	Fall	<a href="#">MT 211 &amp; 212</a> (Advanced Machine Technology 1 & Lab) <a href="#">ENGL&amp; 101</a> (Composition 1)
	Winter	<a href="#">MT 221 &amp; 222</a> (Advanced Machine Technology 2 & Lab) <a href="#">CMST 110</a> (Communication Behavior)
	Spring	<a href="#">MT 231 &amp; 232</a> (Advanced Machine Technology 3 & Lab) ***Precision Machining Technology AAS is earned upon successful completion of this quarter.

Optional additional courses that could be added any quarter: WT 222 (Gas Tungsten Arc Welding – Tig) and WT 251(Gas Metal Arc Welding (Mig) certificate)

The plan above is only a sample. If you want to see all of the courses we offer, please visit our online catalog [here!](#)

## BEFORE YOU START

Ready to get started? To begin working towards the certificate or the AAS degree, you simply need to apply and be accepted to CBC. You can apply online at [www.columbiabasin.edu](http://www.columbiabasin.edu).

## ABOUT THE PROGRAM

Work with your hands, channel your creativity and bring your ideas to life for a skilled, high-demand job. As a student in the Manufacturing Department at CBC, you'll work with high-tech precision machines in a state-of-the-art facility. Learn how to use a 3D solid modeling system and design the parts and assemblies necessary for the products we use in our everyday lives. You can transition this skillset into a variety of settings, including aerospace, medical and defense industries, as well as research laboratories and custom parts manufacturers.

When you complete the AAS program, you will be able to:

- demonstrate manual machining skills, grinding skills and blueprint reading skills
- operate high-tech equipment such as CNC and electrical discharge machines
- demonstrate computer-aided drafting, solid modeling and computer-aided manufacturing
- use math and problem-solving skills

## OUT OF CLASS TO DO'S

- Contact your instructors and/or the CBC Career Services Center to find an internship, observation/shadowing experience, or a job in the manufacturing technology field.
- Visit the Academic Success Center for quiet study space, small group study, supplemental instruction and tutoring assistance.

## CAREER OPPORTUNITIES

Machinists run high-tech equipment such as lathes, milling machines and grinding machines to produce precision parts, assemblies, fixtures and tools. They also use software to program multi-axis computer numerical controlled (CNC) machines and use sophisticated inspection equipment such as computer coordinate measuring machines to ensure the parts are in tolerance and of quality standards.

### FAQs

#### **Class Times/Delivery Format**

Manufacturing Technology classes are offered in person.

General education courses may be offered online.

#### **Length of Program**

Full-time students can earn a certificate in one year and the AAS degree in two years.

#### **Which Quarter Can I Begin?**

The program accepts new students every fall.

## APPLY FOR FINANCIAL AID OR OTHER FUNDING

### **Please complete:**

**The FAFSA application:** The Free Application for Federal Student Aid (FAFSA) provides financial aid for U.S. citizens and eligible non-citizens, such as permanent residents. Visit the [FAFSA website](#) to create your FSA ID and to complete your application.

### **OR**

**The WASFA application:** The Washington Application for State Financial Aid (WASFA) is for DACA or HB 1079 undocumented students. Visit the [Washington Student Achievement Council website](#) to complete your WASFA application.

**Did you know???** You can apply for CBC scholarships two times every year! Click [here](#) for more information!

**PLEASE NOTE:** This document represents a sample plan for degree completion with this program of study. Actual course selection and sequence may vary and should be discussed individually with your Completion Coach. Completion Coaches can also help you plan other experiences to enrich your education such as internships, research, learning communities, and campus involvement and community-based learning.

Office Hours: Monday to Thursday 7 am to 4:30 pm; Friday 7 am to noon

LEARN MORE |



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