

# 2017 – 2018 COMMUNITY COLLEGE OF DENVER **MACHINE TECHNOLOGIES**

<p><b>Basic Machining Certificate</b></p> <p>7.5-week Courses</p> <p>1 semester**</p>	<p>Classes Required:</p> <p>MAC 100 Machine Shop Safety MAC 101 Intro to Machine Shop MAC 102 Blueprint Reading MAC 110 Intro to Engine Lathe MAC 111 Intermediate Engine Lathe MAC 120 Intro to Milling Machine MAC 121 Intermed. Milling Machine MAT 108 Technical Mathematics (23 Credit Hours)</p>	<p>Job Opportunities:</p> <p><b>Entry-Level Machinist</b> <b>Machine Tool Setter</b></p> <p>Salary Range: <b>entry level: \$10/hour</b> <b>with experience: \$14.50/hour</b></p>	<p>The Machine Technologies Program at Community College of Denver offers clear pathways so you can reach your educational goals. You can earn a Basic Machining Certificate and then move on to learn intermediate machining skills. You can also earn a CNC Machine Tool Certificate or Associate of Applied Science Degree in Manufacturing. We also offer an Industrial Maintenance Technologies Certificate. CCD... Start here. <i>Go Anywhere!</i></p>	
<p>taking 2 more classes =</p>	<p><b>Intermediate Machining Certificate</b></p> <p>1 additional semester**</p>	<p>Classes Required:</p> <p>MAC 201 Intro to CNC Turning MAC 205 Intro to CNC Milling (6 Additional Credit Hours)</p>	<p>Job Opportunities:</p> <p><b>Maintenance Machinist</b> <b>Machine Tool Setter</b> <b>Tool Room Machinist</b></p> <p>Salary Range: <b>entry level: \$14.50/hour</b> <b>with experience: \$20/hour</b></p>	
<p>taking 4 more classes =</p>	<p><b>CNC Machine Tool Operator Certificate</b></p> <p>1 additional semester**</p>	<p>Classes Required:</p> <p>CAD 101 Computer Aided Drafting I CIS 118 Intro to PC Applications MAC 145 Production Manuf. Cncpts MAC 240 CAD/CAM 2-D (12 Additional Credit Hours)</p>	<p>Job Opportunities:</p> <p><b>Journeyman Machinist</b> <b>CNC Set Up</b> <b>Tool &amp; Die Maker</b> <b>Mold Maker</b> <b>Supervisor</b></p> <p>Salary Range: <b>entry level: \$15/hour</b> <b>with experience: \$29/hour</b></p>	
<p>taking 7 more classes =</p>		<p><b>CNC Manufacturing Associate of Applied Science Degree</b> <b>OR CNC Management Associate of Applied Science Degree</b></p> <p>Replace MAC 245 &amp; MAC 252 with MTE 230 Design for Manufacturability MTE 244 Lean Manuf. Practices</p> <p>2 additional semesters**</p>	<p>Classes Required:</p> <p>COM 115 Public Speaking ENG 121 English Composition I* OR ENG 131 Technical Writing I MAC 220 Modern Productn Manuf MAC 250 Adv. Inspection Tech MAC 245 CAD/CAM 3-D MAC 252 Practical Metallurgy POS 105 Intro to Political Science* OR SOC 101 Intro to Sociology I* (21 Additional Credit Hours)</p>	<p>Job Opportunities:</p> <p><b>Machinist</b> <b>Maintenance Specialist</b> <b>Inspector</b> <b>Manager</b> <b>CNC Operator</b></p> <p>Salary Range: <b>entry level: \$24/hour</b> <b>with experience: \$31/hour</b></p>



Find out more at [ccd.edu/Machining](http://ccd.edu/Machining)  
or contact **Center for Career & Technical Education**  
**303-556-2487**

Start with the free application. Go to [ccd.edu/Apply](http://ccd.edu/Apply)  
See our costs and tuition information at [ccd.edu/tuition](http://ccd.edu/tuition)

Colorado Resident Student Example

Tuition & Fees per semester taking 5 classes (15 credit hours): \$2696.18

Average financial aid award per semester: \$1952.00.\*\*\*

## 2017 – 2018 COMMUNITY COLLEGE OF DENVER **MACHINE TECHNOLOGIES**

<p><b>Industrial Maintenance Technologies Certificate</b></p> <p>3 semesters**</p>	<p>Classes Required:</p> <p>MAC 100 Machine Shop Safety  MAC 101 Intro to Machine Shop  MAC 102 Blueprint Reading  MAC 110 Intro to Engine Lathe  MAC 120 Intro to Milling Machine  MAT 108 Technical Mathematics  CAD 101 Computer Aided Drafting I  CAD 102 Computer Aided Drafting II  CAD 240 Inventor I Autodesk  CIS 118 Intro to PC Applications  WEL 101 Allied Cutting Processes  WEL 102 Oxyacetylene Joining Processes  WEL 103 Basic Shielded Metal Arc</p> <p>(41 Credit Hours)</p>	<p>Job Opportunities:</p> <p><b>Machine Setters</b>  <b>Braze Operators</b>  <b>Production Machinist</b>  <b>Soldering and Brazing</b>  <b>Machine Setters</b>  <b>Metal Workers</b></p> <p>Salary Range:  <b>entry level: \$10.50/hour</b>  <b>with experience: \$23.50/hour</b></p>
--	--	---



COMMUNITY  
COLLEGE OF  
DENVER

Find out more at **ccd.edu/Machining**  
or contact **Center for Career & Technical Education**  
**303-556-2487**

Start with the free application. **Go to ccd.edu/Apply**  
See our costs and tuition information at **ccd.edu/tuition**

*Colorado Resident Student Example*

*Tuition & Fees per semester taking 5 classes (15 credit hours): \$2696.18*

*Average financial aid award per semester: \$1952.00.\*\*\**

Information from the 2017/18 CCD Catalog. See current catalog or meet with an academic advisor for more info. Information on occupations, rates for completion and placement, program costs and median loan debt may be found at [www.ccd.edu/gainfulemployment](http://www.ccd.edu/gainfulemployment). Salary information derived from O\*NET Online. \*\*Assuming full-time enrollment of 4-5 classes (12-15 credit hours) per semester. \*\*\*Your actual award may vary. Example based on a Colorado resident, dependent student with \$45-\$60,000/year income in a household with 4 or less people with 2 or less people in college. Updated 6/2017

Creative Commons License: This tool was created in order to fulfill the requirements of the TAACCCT 3 grant. CHAMP products by Community College of Denver are licensed under a Creative Commons Attribution 4.0 International License. This workforce product was funded by a grant awarded by the U.S. Department of Labor's Employment and Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The U.S. Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership.