INFORMATION & ADVISEMENT GUIDE



PRODUCTION

TECHNOLOGY

Associate in Applied Science Degree in Production Technology Certificate of Completion in Production Technology: CNC Technology National Institute for Metalworking Skills (NIMS) Credentialing

MORE INFORMATION: 602-286-8653

WWW.GATEWAYCC.EDU/PRODUCTION-TECHNOLOGY











Welcome to the Production Technology Program at GateWay Community College

If you have any questions about the enclosed program material, please feel free to contact any of the following program contacts:

John Kelly, Industrial Technology Division Director Phone (602) 286-8647 Email: <u>kelly@gatewaycc.edu</u>

Dave Zamora, Program Director-Production Technology/Industrial Design Technology Faculty Phone (602) 286-8656 Email: zamora@gatewaycc.edu

Kevin Weaver, Manufacturing Technology Faculty

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Maricopa County Community College District (MCCCD) is an EEO/AA institution and an equal opportunity employer of protected veterans and individuals with disabilities. A lack of English language skills will not be a barrier to admission and participation in the career and technical education programs of the college.

The Maricopa Community Colleges do not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities. For Title IX/504 concerns, call the following number to reach the appointed coordinator: (480) 731-8492. For additional information, as well as a listing of all coordinators within the Maricopa College system, http://www.maricopa.edu/non-discrimination.

^{*} The information provided in this Guide is subject to change. Revised 06/18/2018.

		1	
1	Submit 'Student Information Form'	Enrollment Services	(602) 286-8200
	https://admissions.maricopa.edu/	IE 1214	
2	Verify in-state residency	Enrollment Services	(602) 286-8200
	https://my.maricopa.edu/services/admissions-records- registration/proof-identity-id-authentication	IE 1214	(002) 200-0200
3	Send Official Transcript and/or High School Transcripts to Enrollment Services	Enrollment Services IE 1214	(602) 286-8200
	GateWay Community College Attn: Admissions and Records 108 North 40th Street Phoenix, AZ 85034		
	Take Course Placement Test (if applicable)		
4	Some courses and programs require test scores prior to enrollment.	Testing Center IE 1252	(602) 286-8160
	No fee required. BRING PICTURE ID. Call for times.		
_	Apply for Financial Aid and Scholarships, if interested	Enrollment Considers	(055) 433 3333
5	http://www.gatewaycc.edu/Pay/FinancialAid/Apply.aspx	Enrollment Services IE 1214	(855) 622-2332
	http://www.fafsa.ed.gov/index.htm		
6	Meet with an Industrial Technology Program Advisor	Francisco de la contraction de	((02) 204 2474
	Explore your program options, obtain registration advisement and setup a program of study plan.	Enrollment Services IE 1214	(602) 286-8174
_	Register for Courses	Enrollment Services	(602) 286-8200
7	Schedule Available at http://classes.sis.maricopa.edu/	IE 1214	(002) 200-8200
	Enroll online at https://my.maricopa.edu		
0	Pay Tuition and Fees	Enrollmont Convices	(602) 204 0200
8	Payment Plans and Payment Extensions Available. Ask for details.	Enrollment Services IE 1214	(602) 286-8200
_	Obtain Student ID, Optional	Enrolles and Comite an	(/02) 20/ 04/4
9	Enrollment Services — BRING PICTURE ID	Enrollment Services IE 1214	(602) 286-8141
10	Obtain Parking Decal, Required	Enrollment Services	(602) 204 0200
10	Required if parking a vehicle on campus.	Enrollment Services IE 1214	(602) 286-8200
11	Purchase Books	M . D	((00) 00 (0 (0)
	Bookstore or online at https://www.bkstr.com/gatewayccstore/home	Main Building, Bookstore MA 1200	(602) 286-8400
	Attend a Program Orientation Session		((00) 00(0)
12	A week before the start of the semester.	Room location varies each semester.	(602) 286-8613
	<u> </u>		

Career Description

Production Technicians are employed in various engineering, manufacturing, and quality disciplines; in a variety of manufacturing industries to operate machinery that develop manufactured parts. Additional responsibilities may include the management of production quality and making recommendations for improved processes. Technicians are skilled at reading and creating technical instructions and are able to apply advanced technology in product development, machining and inspection processes.



How to Get Started

GateWay Community College offers an Associate of Applied Science Degree in Production Technology which provides an emphasis in CNC-Computer Aided Design/Computer Aided Manufacturing Programming. A Certificate of Completion in Production Technology: CNC provides training for the programming, operation and maintenance of Computer Numerical Control (CNC) machines. All programs include hands-on practical training.

When you complete either the associate degree and/or certificate program, you will be prepared to take industry-certified exams offered by the National Institute for Metalworking Skills and HAAS Training Center.

Employment Outlook

In Arizona, Production Technician positions are expected to increase by 2018. For the latest in employment trends and salaries, visit https://www.onetonline.org/

Program Cost

Tuition and fees are set by the Maricopa Community College District Governing Board. Tuition is based on the 2018-2019 tuition rate of \$85 per credit hour (for in-county students). Tuition and fees are subject to change. Additional fees may apply. Financial Aid and Child Care are available to those who qualify.

Accreditation

GateWay Community College is a Maricopa Community College, accredited by the Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools (30 North LaSalle Street, Suite 2400, Chicago, IL. 60602-2504. Phone (800) 621-7440.

Certificate of Completion (CCL) in CNC Technology: Major Code: 5440

Description: The Certificate of Completion (CCL) in Production Technology: CNC Technology program is designed for students to obtain the skills required to be considered as a Computer Numerical Control (CNC) technician in a manufacturing environment. Students develop skills with a specialization emphasis in Computer Numerical Control (CNC), Computer Aided Design/Computer Aided Manufacturing (CAD/CAM) Programming Technician.

Admission Criteria: Math assessment score on District placement exam placing students into MAT090 or MAT091 or MAT092 or higher, or permission of Department or Division.

Program Prerequisites: None

Course Pre-Fix	Course Name	Credits	Advisor Notes		
CNC Technology Required Courses					
MET109	Machine Trades Print Reading or Satisfactory completion of Departmental credit by examination	3			
MET112	Inspection Techniques	3			
MET113	Applied Geometric Dimensioning and Tolerance	3			
MET231	Manufacturing Processes	3			
GTC/MET206	CNC Programming	3			
MET207	CNC Mill: Operator Training I	3			
MET208	CNC Lathe: Operator Training I	3			
MET215	Advance CNC Operation	3			
MET 220 or MET 236 AD	Fundamentals of Coordinate Measuring Machines (CMM) or CAD/CAM Computer Numerical Control (CNC) Programming: MasterCam	3 - 6			
Total	Required Credits for Certificate of Completion	27 - 30			

The official curriculum outline for this program is located on the Maricopa Community Colleges Curriculum & Transfer Articulation site at:

https://aztransmac2.asu.edu/cgi-bin/WebObjects/acres.woa/wa/freeForm?id=93050

Associate in Applied Science (AAS) in Production Technology: Major Code: 3255

Course Pre-Fix	Course Name	Credits	Advisor Notes		
Production Technology Required Courses					
MET109	Machine Trades Print Reading or Satisfactory completion of departmental credit by	3			
MET112	Inspection Techniques	3			
MET113	Applied Geometric Dimensioning and Tolerancing	3			
MET231	Manufacturing Processes	3			
GTC/MET206	CNC Programming	3			
MET207	CNC Mill: Operator Training I	3			
MET208	CNC Lathe: Operator Training I	3			
MET215	Advance CNC Operation	3			
MET220	Fundamentals of Coordinate Measuring Machines (CMM)	3			
MET236AD	CAD/CAM Programming for CNC: MasterCam	3			
MET246AD	Advanced CAD/CAM for CNC: MasterCam	3			
MET266AD	Solids CAD/CAM Programming: MasterCam 3	3			
MET276	MasterCam Certified Programmer Mill Level I: Test	1			
MET286AE	Solid Design I: Part Modeling: SolidWorks	3			
MET Restrictive Electives	MET119 Workplace Quality Systems MET224 Applied Statistical Process Control Methods MET254 Lean and Six Sigma Applied Concepts MET284 Advanced Quality Process	0 - 12			
	Associate in Applied Science Required General Education	n Courses			
ENG101+	First-Year Composition	3			
ENG102+	First-Year Composition	3			
COM Class	COM 100 or COM 110 or COM 230	3			
CRE101	Critical Reading or Equivalent by Assessment	3			
MAT Class	Intermediate Algebra - MAT 120 or MAT 121 or MAT 122	3 - 5			
Humanities/Fine Arts (course must be on the approved list of courses to meet the AAS degree in General Education Requirements and must meet Cultural, Global and Historical)					
Social/Behavioral Sciences (course must be on the approved list of courses to meet the AAS degree in General Education Requirements)					
Natural Sciences A	4				
Total R	61-67				

The official curriculum outline for this program is located on the Maricopa Community Colleges Curriculum & Transfer Articulation site at:

https://aztransmac2.asu.edu/cgi-bin/WebObjects/acres.woa/wa/freeForm3?id=93043

Program of Study/Suggested Course Sequence

FALL/Spring START: Evening Classes

	1s	t Semester, Fal	I/Spring	
Course	Credit	Tuition	Course Fees	Book
MET109	3	\$255	-	Yes
MET112	3	\$255	\$100	Yes
MET113	3	\$255	\$100	Yes
MET231	3	\$255	\$100	Yes
General Education			es can be taken at any e Saturday classes are av	other MCCD Colleges a vailable)
	2nd	d Semester, Fa	II/Spring	
Course	Credit	Tuition	Course Fees	Book
MET206	3	\$255	\$100	Yes
MET207	3	\$255	\$100	No
MET208	3	\$255	\$100	No
MET215	3	\$255	\$100	No
MET 220	3	\$255	\$100	No
General Education	your		s can be taken at any o	other MCCD Colleges a
•		d Semester, Fal		D 1
Course	Credit	Tuition	Course Fees	Book
MET236AD MET246AD	3	\$255 \$255 \$255	\$100 \$100	Yes
General Education	-		s can be taken at any o	Yes
General Education	your	ducation core classe	s can be taken at any t	other weed colleges a
	4th	n Semester, Fal	I/Spring	
Course	Credit	Tuition	Course Fees	Book
MET286AE	3	\$255	\$100	Yes
MET266AD	3	\$255	\$100	Yes
MET276	1	\$85	\$100	
General Education			es can be taken at any o Saturday classes are av	•

Production Technology Degree and Certificate Cost Estimates

Program	Tuition	Course Fees	Total
Associate of Applied Science in Production	\$5,695	\$1,300	\$6,995
Certificate of Completion in CNC Technology	\$2,550	\$800	\$3,350

Please note that these are only estimates and do not include books. These estimates may change based on increases to tuition, course fees and book costs. Estimates are based on the 2018-2019 tuition rates for in-county students. Additional fees may apply.

COLLEGE CONTACT INFORMATION

Admissions, Registration and Records	(602) 286-8200
Adult Re-Entry	(602) 286-8900
Apprenticeship Programs	(602) 286-8681
Assessment/Testing Center	(602) 286-8160
Bookstore	(602) 286-8400
Cafeteria	(602) 286-8308
Career and Employment Services Center	(602) 286-8500
College Safety	(602) 286-8911
Cashier's Office	(602) 286-8277
Cashier's TIP Hotline	(602) 286-8286
Children's Learning Center	(602) 286-8130
College Information	(602) 286-8000
Counseling	(602) 286-8900
Disability Services	(602) 286-8888
Financial Aid	(602) 286-8300
Institute for Computer Training (ICT) Lab	(602) 286-8568
Learning Center	(602) 286-8800
Library	(602) 286-8454
Phone Registration	(602) 286-8100
Student Activities/Clubs	(602) 286-8700
Veterans Services	(602) 286-8076