



Clackamas Community College
Associate of Applied Science in Computer Aided Manufacturing
to
Oregon Institute of Technology
Bachelor of Applied Science in Technology and Management

Articulation Agreement
2019 - 2020 Catalog

It is agreed that students transferring with Clackamas Community College's (CCC) Associate of Applied Science in Computer Aided Manufacturing to Oregon Institute of Technology's (Oregon Tech) Bachelor of Applied Science in Technology and Management (BTM) will be given full credit for all selected courses listed below. This agreement is based on the evaluation of the rigor and content of the general education and technical courses at both CCC and Oregon Tech, and is subject to a yearly reevaluation by both schools for continuance. This agreement is dated April 1, 2020.

Baccalaureate students must complete a minimum of 60 credits of upper-division work before a degree will be awarded. Upper-division is defined as 300- and 400-level classes at a bachelor's degree granting institution. Baccalaureate students at Oregon Tech must complete 45 credits from Oregon Tech before a degree will be awarded.

Admission to Oregon Tech is not guaranteed. Students must apply for admission to Oregon Tech in accordance with the then-existing rules, policies and procedures of Oregon Tech. Dual Enrollment is possible according to an existing Memorandum of Understanding. Students are responsible for notifying the Oregon Tech Admissions and Registrar's Office when operating under an articulation agreement to ensure their credits transfer as outlined in this agreement. In order to utilize this agreement students must be attending CCC during the above catalog year. Students must enroll at Oregon Tech within three years of this approval.

Clackamas Community College

 05/18/2020

David Plotkin, Vice President
Instruction and Student Services

 05/08/2020

Jason Kovac, Dean
Institutional Effectiveness and Planning

Oregon Institute of Technology

 04/15/2020


Carleen Drago Starr, Director
Educational Outreach and Partnerships

 04/16/2020

Hallie Neupert, Department Chair
Business Management

 04/16/2020

Tom Keyser, Dean
College of Engineering, Technology, and Management

 05/08/2020

Wendy Ivie
University Registrar

Clackamas Community College Degree Courses & Oregon Tech Equivalent Credits

Clackamas Community College Course Number & Title	Qtr. Units	Oregon Institute of Technology Course Number & Title	Qtr. Units
Associate of Applied Science AND			
CDT 102 - Sketching and Problem Solving	3	Career Technical Elective Credits	60
CDT 108A - Introduction to SolidWorks	3		
CDT 223 - Inventor Fundamentals	3		
CDT 225 - Advanced SolidWorks	3		
MET 170 - Introduction to Manufacturing Process.	3		
MFG 105 - Dimensional Inspection	2		
MFG 106 - Applied Geometric Dimensioning and Tolerancing for Manufacturing	3		
MFG 107 - Industrial Safety and First Aid	3		
MFG 109 - Computer Literacy for Technicians	3		
MFG 111 - Machine Tool Fundamentals I	6		
MFG 112 - Machine Tool Fundamentals II	6		
MFG 113 - Machine Tool Fundamentals III	6		
MFG 130 - Basic Electricity I	3		
MFG 201 - CNC I: Set-up and Operation	4		
MFG 202 - CNC II: Programming and Operations	4		
MFG 203 - CNC III: Applied Programming & Operation	3		
MFG 204 - Computer-Aided Manufacturing I	4		
MFG 205 - Computer-Aided Manufacturing II	4		
MFG 206 - Computer-Aided Manufacturing III	3		
MFG 209 - Programming and Automation for Manufacturing	3		
MFG 219 - Robotics	3		
MFG 221 - Materials Science	3		
MFG 280 - Manufacturing Technology/CWE	4		
Human Relations Requirement	3		
CAD/CAM Program Electives	4		
MTH 111 - College Algebra ¹	5		
WR 121 - English Composition ¹	4	WRI 121 - English Composition	3
Total CCC Degree Credits ²	98	Total Oregon Tech Degree Credits	67

Courses not required for Clackamas Community College's AAS in Computer Aided Manufacturing, but are required for Oregon Tech's BAS in Technology and Management and can be taken at CCC or Oregon Tech.

Clackamas Community College Course Number & Title	Qtr. Units	Oregon Institute of Technology Course Number & Title	Qtr. Units
BA 206 - Management Fundamentals	4	BUS 215 - Principles of Management	3
BA 211 - Financial Accounting I	4	ACC 201 - Principles of Accounting I	4

BA 213 - Decision Making with Accounting Information	4	ACC 203 - Principles of Managerial Accounting	4
BA 223 - Principles of Marketing	4	BUS 223 - Marketing I	3
BA 226 - Business Law I	4	BUS 226 - Business Law I	3
COMM 111 - Public Speaking	4	SPE 111 - Public Speaking	3
CS 135S - Microsoft Excel	3	MIS 102 - Spreadsheet Software Laboratory	1
CS 275 - Database Design	3	MIS 275 - Introduction to Relational Databases	3
EC 201 - Principles of Economics: Micro	4	ECO 201 - Principles of Microeconomics	3
EC 202 - Principles of Economics: Macro	4	ECO 202 - Principles of Macroeconomics	3
Humanities Elective ³	6	Humanities Elective ³	6
Lab Science Elective ⁴	4	Lab Science Elective ⁴	4
Math/Science Elective ⁵	4	Math/Science Elective ⁵	4
WR 122 - English Composition	4	WRI 122 - Argumentative Writing	3
WR 227 - Technical Report Writing	4	WRI 227 - Technical Report Writing	3
Additional CCC Degree Credits ²	60	Additional Oregon Tech Degree Credits	50
Total CCC Degree Credits ²	158	Total Oregon Tech Degree Credits	117

In addition to the above courses, the courses listed below are also required for the BAS in Technology and Management and should be completed at Oregon Tech.
All courses below are available online.

Oregon Institute of Technology Course Number & Title	Qtr. Units
ACC 325 - Finance	4
ANTH 452 - Globalization	3
BUS 349 - Human Resource Management I	3
BUS 356 - Business Presentations	4
BUS 441 - Leadership I	3
BUS 457 - Business Research Methods II	3
BUS 467 - Service Management	3
BUS 478 - Cases in Strategy and Policy	3
BUS 495 - Senior Project Proposal	3
BUS 496 - Senior Project	3
BUS 497 - Senior Project	3

MATH 361 - Statistical Methods	4
MGT 321 - Operations Management I	3
MGT 335 - Project Management	3
MGT 461 - Lean/Six Sigma Management I	3
MIS 206 - Introduction to Management Information Systems	3
PHIL 331 - Ethics in the Professions or PHIL 342 - Business Ethics	3
PSY 347 - Organizational Behavior	3
SPE 321 - Small Group and Team Communication	3
WRI 327 - Advanced Technical Writing	3
Additional Oregon Tech Credits ⁶	63
Total Oregon Tech Degree Credits ⁷	180

1. To maximize useable credits toward the BTM, the listed course is recommended.
2. Excess credits will transfer to Oregon Tech as general elective credit with the exception of developmental course work; these credits will not be used toward the BTM.
3. Students can transfer up to six (6) credit hours of Humanities electives into the BTM; these courses should be designated as Humanities electives by Oregon Tech. However, only three (3) humanities credits can be studio/performance based. Choose from the following CCC prefixes: ART, ENG, HUM, MUS, PHL, R, or TA.
4. The BTM requires four (4) biological or physical science with lab. Choose from the following CCC prefixes: BI, CH, G, PH, or Z.
5. Students can transfer up to four (4) credit hours of Math/Science electives into the BTM; these courses should be designated as Math/Science electives by Oregon Tech. Choose from the following CCC prefixes: BI, CH, G, MTH, PH, or Z. ENV will not be accepted.
6. Baccalaureate students must complete a minimum of 60 credits of upper-division work before a degree will be awarded. Upper-division is defined as 300- and 400- level classes at a bachelor's degree granting institution.
7. Oregon Tech's BTM requires 180 credits.