



# ARTICULATION AGREEMENT GUIDE

Catalog Year: 2018-2019

Department Name – Computer Science  
 Transfer Guide with Oregon Institute of Technology

Purpose: Student transfer from Clackamas Community College to the Oregon Institute of Technology

<b>Clackamas Community College</b> Associate of Applied Science in Computer Aided Manufacturing	<b>Oregon Institute of Technology</b> Bachelor of Applied Science in Technology and Management
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**Program/Major Requirements:**

CCC Courses	Qtr. Credits	Oregon Institute of Technology Course Equivalents	Qtr. Credits
MTH 111 College Algebra	5	MATH 111 College Algebra Math/Science elective (up to 4 credits)	4 1
General electives (recommend courses in next table)	--	General elective (recommend MTH 111 College Algebra and courses in next table)	--
WR 121 English Composition	4	WRI 121 English Composition	3
<b>Associate of Applied Science</b>			
CDT 102 Sketching and Problem Solving	3	Career Technical Education Credits	60
CDT 108A Introduction to Solid/Works	3		
CDT 223 Inventor Fundamentals	3		
CDT 225 Advanced SolidWorks	3		
MET 170 Introduction to Manufacturing Process	3		
MFG 105 Dimensional Inspection	3		
MFG 106 Applied Geometric Dimen/Toler/MFG	2		
MFG 107 Industrial Safety & 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 & Operation	4		
MFG 202 CNC II: Programming & Operations	4		
MFG 203 CNC III: Applied Programming & Oper	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/Automation for MFG	3		
MFG 219 Robotics	3		
MFG 221 Materials Science	3		
MFG 280 Manufacturing Technology/CWE	4		
Human Relations Requirement	3		

CAD/CAM program elective	3		
<b>TOTAL CLACKAMAS DEGREE CREDITS</b>	<b>97</b>	<b>TOTAL OREGON TECH DEGREE CREDITS</b>	<b>68</b>

**Courses not required for Clackamas's Associate of Applied Science CAD/CAM Technology, but are required for Oregon Tech's Bachelor of Applied Science in Technology and Management and can be taken at Clackamas or Oregon Tech.**

<b>CCC Courses</b>	<b>Qtr. Credits</b>	<b>Oregon Institute of Technology Course Equivalents</b>	<b>Qtr. Credits</b>
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 135DB Microsoft Access <b>OR</b> CS 275 Database Design	3	MIS 113 Introduction to Database Systems <b>OR</b> MIS 275 Introduction to Relational Databases	3
EC 201 Principles of Economics: Micro	4	ECO 201 Principles of Economics, Microeconomics	3
EC 202 Principles of Economics: Macro	4	ECO 202 Principles of Economics, Macroeconomics	3
Humanities elective	6	Humanities elective (up to 6 credits)	6
Lab Science elective: any biology, chemistry, or physical science courses with lab.	4	Lab Science elective	4
Math/Science elective	3	Math/Science elective (up to 4 credits)	3
WR 122 English Composition	4	WRI 122 Argumentative Writing	3
WR 227 Technical Report Writing	4	WRI 227 Technical Report Writing	3
<b>Additional Clackamas credits</b>	<b>59</b>	<b>Additional Oregon Tech Degree credits</b>	<b>49</b>
<b>TOTAL CLACKAMAS DEGREE CREDITS</b>	<b>156</b>	<b>TOTAL OREGON TECH DEGREE CREDITS</b>	<b>117</b>

**Additional Requirements for Program/Major:**

Oregon Institute of Technology courses

*All classes below are available online.*

Course Number	Qtr. Credits
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 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
PHIL 331 Ethics in the Professions	3
<b>OR</b> PHIL 342 Business Ethics	
PSY 347 Organizational Behavior	3
SPE 321 Small Group and Team Communication	3
WRI 327 Advanced Technical Writing	3
<b>Additional Oregon Tech Credits</b>	<b>60</b>
<b>Total Oregon Tech Degree Credits</b>	<b>180</b>

In addition to the departmental requirements listed above, students must also complete coursework for university admission, general education requirements and BA/BS requirements. Meet with an Oregon Institute of Technology Academic & Career Coach to develop an effective transfer plan that will meet your individual needs.

**General Education Requirements**

- To maximize useable credits toward the BAS degree, the listed course is recommended.
- Students can transfer up to 4 credit hours of math/science electives into the BAS program; these courses should be designated as math/science electives by Oregon Tech. Choose from the following Clackamas prefixes: BI, BOT, CH, G, GS, MTH, PH, Z or other courses designated as math/science electives by the Oregon Tech Registrar's Office. Please note that Oregon Tech does not grant science credit for computer science courses.
- 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 BAS degree.

- Students can transfer up to 6 credit hours of humanities electives into the BAS program; these courses should be designated as humanities electives by Oregon Tech. However, only 3 humanities credits can be studio/performance based. Choose from the following Clackamas prefixes: ART, ENG, HUM, MUS, PHL, R, TA, Second-year Foreign Languages or other courses designated as humanities electives but the Oregon Tech Registrar's Office.
- The BAS program requires one biological or physical science with lab. Choose from following Clackamas prefixes: BI, BOT, CH, G, GS, PH, Z or other courses designated as lab science electives by the Oregon Tech Registrar's Office.
- 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.
- Oregon Tech's Bachelor of Applied Science in Technology and Management requires 180 credits.