



# ARTICULATION AGREEMENT GUIDE

Catalog Year: 2018-2019

Department Name – Manufacturing Technology  
 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 Renewable Energy Technology	<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
General electives (recommend courses in next table)		General elective (unless courses from next table are selected)	--
GEO 100 or 110 or 130 or GIS 201	3-4	Humanities Elective	3
MTH 111 College Algebra	5	MATH 111 College Algebra Math/Science elective (up to 4 credits)	4 1
WR 121 English Composition	4	WRI 121 English Composition	3
EET 139 Principles of Troubleshooting I	2	Career Technical Education Credits	60
EET 239 Principles of Troubleshooting II	2		
IMT 104 Reading Schematics and Symbols	2		
IMT 215 Electromechanical Systems I	2		
IMT 223 Instrumentation and Controls	3		
IMT 233 Programmable Logic Controllers	3		
MET 170 Introduction to Manufacturing Processes	3		
MFG 103 Machining for the Fabrication and Maintenance Trades	3		
MFG 107 Industrial Safety & First Aid	3		
MFG 109 Computer Literacy for Technicians	3		
MFG 130 Basic Electricity I	3		
MFG 131 Basic Electricity II: Motors/Controls	3		
MFG 133 Programmable Logic Controllers	3		
MFG 140 Principles of Fluid Power	3		
MFG 209 Programming & Automation for MFG	3		
MFG 221 Materials Science	3		
RET 200 Renewable Energy Systems	4		
RET 209 Renewable Energy I: Energy Efficiency	3		
RET 211 Renewable Energy II: System Fund	3		
RET 213 Renewable Energy III: Install/Maint.	3		
RET 215 Renewable Energy IV: Systems Design	3		
RET 217 Renewable Energy Capstone	3		
RET 280 Renewable Energy Technology/CWE	2		

WLD 150 Welding Processes	4		
Human Relations requirement	3		
Renewable Energy Systems Tech program elect	9		
<b>TOTAL CLACKAMAS DEGREE CREDITS</b>	<b>90-91</b>	<b>TOTAL OREGON TECH DEGREE CREDITS</b>	<b>71</b>

**Courses not required for Clackamas's Associate of Applied Science Renewable Energy 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 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
BUS 206 Management Fundamentals	4	BUS 215 Principles of Management	3
BA 223 Principles of Marketing	4	BUS 223 Marketing I	3
BA 226 Business Law I	4	BUS 226 Business Law	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 3 credits)	6
Lab Science elective: any biology, chemistry, or physical science courses with lab.	4	Lab Science elective	4
Math/Science elective (up to 4 credits)	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>60</b>	<b>Additional Oregon Tech Degree credits</b>	<b>49</b>
<b>TOTAL CLACKAMAS CREDITS</b>	<b>150-151</b>	<b>TOTAL OREGON TECH DEGREE CREDITS</b>	<b>120</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	4
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	1
BUS 496 Senior Project	2
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 <b>OR</b> PHIL 342 Business Ethics	3
PSY 347 Organizational Behavior	3
SPE 321 Small Group and Team Communication	3
Technical electives (upper-division)	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

- 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 3 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, and Second-year Foreign Languages or other courses designated as humanities electives but the Oregon Tech Registrar's Office.
- 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.
- 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.