Catalog Year: 2017-2018

Department Name – Manufacturing Technology
Transfer Guide with Oregon Institute of Technology

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

Clackamas Community College	Oregon Institute of Technology
Associate of Applied Science Microelectronics Systems Technology	Bachelor of Applied Science in Technology and Management

Program/Major Requirements:

CCC Courses	Qtr. Credits	Oregon Institute of Technology Course Equivalents	Qtr. Credits
CH 104 Introductory Chemistry	5	Lab Science elective Math/Science elective	4 1
MTH 111 College Algebra	5	MATH 111 College Algebra Math/Science elective	4 1
WR 121 English Composition (recommended)	4	WRI 121 English Composition	3
Associate of Applied Science **AND** EET 112 Electronic Test Equipment/Soldering EET 127 Semiconductor Circuits I EET 137 Electrical Fundamentals I EET 139 Principles of Troubleshooting I EET 141 Electrical Fundamentals II EET 142 Electrical Fundamentals III EET 157 Digital Logic I EET 215 Electromechanical Systems I EET 230 Laser and Fiber Optics EET 239 Principles of Troubleshooting II EET 250 Linear Circuits ESH 100 Environmental Regulations MFG 104 Print Reading or IMT 104 Reading Schematics and Symbols MFG 107 Industrial Safety & First Aid MFG 109 Computer Literacy for Technicians MFG 123 Instrumentation & Controls MFG 133 Programmable Logic Controllers MFG 140 Principles of Fluid Power MFG 209 Programming and Automation for Manufacturing SM 136 Photolithography SM 150 Semiconductor Processing I SM 160 Semiconductor Processing II	 3 4 4 2 4 4 3 2 3 2 3 2 2 3 3 3 3 3 3 2 2 2	Career Technical Education Credits	60

	Qtr. Credits		
SM 170 Semiconductor Processing III	3		
SM 229 Vacuum Technology	4		
SM 280 Electronics & Microelectronics/CWE	3		
Human Relations requirement (see page 74)	3		
Microelectronics Systems Technology prog elec.	9		
TOTAL CLACKAMAS DEGREE CREDITS[3]	**99**	**TOTAL OREGON TECH DEGREE CREDITS**	**73**

Courses not required for Clackamas's Associate of Applied Science Microelectronics Systems 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.

CCC Courses	Qtr. Credits	Oregon Institute of Technology Course Equivalents	Qtr. Credits
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 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 **OR** CS 275 Database Design	3	MIS 113 Introduction to Database Systems **OR** 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)[4]	6
Math/Science elective	2	Math/Science elective (up to 4 credits)[1]	2
WR 122 English Composition	4	WRI 122 Argumentative Writing	3
WR 227 Technical Report Writing	4	WRI 227 Technical Report Writing	3
Additional Clackamas credits	**54**	**Additional Oregon Tech Degree credits**	**44**
TOTAL CLACKAMAS CREDITS	**153**	**TOTAL OREGON TECH DEGREE CREDITS**	**117**

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 OR HIST 452 Globalization and the Pacific Northwest	3
BUS 349 Human Resource Management I	3
BUS 356 Business Presentations	4
BUS 457 Business Research Methods II	3
BUS 441 Leadership I	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
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	**63**
Total Oregon Tech Degree Credits	**180**

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

- **180** – Minimum credits required to graduate from OIT.

- **60** − Upper-division credits (300 & 400 level classes) required to graduate from OIT.

- **45** − Minimum credits must be earned from OIT.

- 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.

Terms of Condition: This Agreement shall cover the 2016-2017 catalog year. This Agreement will be reviewed each year for changes to either party's course and/or program offerings. Either party may terminate or suspend this Agreement for upon ninety (90) days written notice. Notwithstanding the termination of this Agreement, any students who are in a class shall be treated as if this Agreement continues to be in effect.

Clackamas Community College

Signature:

Print Name: Bill Waters

Title: Dean of Curriculum, Planning, and Research

Date: