

Klamath Community College
Associate of Applied Science in Computer Engineering Technology
to
Oregon Institute of Technology
Bachelor of Science in Embedded Systems Engineering Technology

Articulation Agreement
2017-2018 Catalog

It is agreed that students transferring from Klamath Community College's (KCC) Associate of Applied Science degree in Computer Engineering Technology to Oregon Institute of Technology's (Oregon Tech) Bachelor of Science in Embedded Systems Engineering Technology (ESET) program 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 KCC and Oregon Tech and is subject to a yearly reevaluation by both schools for continuance. The agreement is dated November 1, 2017.

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.

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 student must be attending KCC during the above catalog year. Students must enroll at Oregon Tech within three years of this approval.

KCC Degree Courses & Oregon Tech Equivalent Credits

Klamath Community College Course Number & Title	Qtr. Units	Oregon Institute of Technology Course Number & Title	Qtr. Units
CGS 100 College Survival and Success	3	General elective ¹	--
CIS 120 Embedded C	4	CST 120 Embedded C	4
CIS 116 C++ Programming I	4	CST 116 C++ Programming I	4
CIS 126 C++ Programming II	4	CST 126 C++ Programming II	4
CIS 130 Computer Organization	3	CST 130 Computer Organization	3
CIS 131 Computer Architecture	3	CST 131 Computer Architecture	3
CIS 145 Hardware Installation Support	4	General Elective ¹	--
CIS 146 Software Installation Support	4	General elective ¹	--
CIS 151 Network 1	4	General elective ¹	--
CIS 152 Network 2	4	General elective ¹	--
CIS 162 Digital Logic	4	CST 162 Digital Logic I	4
CIS 225 End User Support	4	General elective ¹	--
CIS 280 Cooperative Work Experience	2	General elective ¹	--
Arts and letters ²	3	Humanities elective ²	3
MTH 111 College Algebra	5	MATH 111 College Algebra	4
MTH 112 Elementary Functions	4	MATH 112 Trigonometry	4
MTH 251 Calculus I	4	MATH 251 Differential Calculus	4
MTH 252 Calculus II	4	MATH 252 Integral Calculus	4
PSY 201A General Psychology	3	PSY 201 Psychology	3
Social Science elective ³	3	Social Science elective ³	3
SP111 Fundamentals of Public Speaking	3	SPE 111 Public Speaking	3

WR121 English Composition I	4	WRI 121 English Composition	3
WR122 English Composition II	4	WRI 122 Argumentative Writing	3
WR 227 Technical Writing	4	WRI 227 Technical Report Writing	3
Total KCC Degree Credits ¹	88	Total Oregon Tech Degree Credits ¹	59

**Courses not required for KCC's AAS in Computer Technology, but required for Oregon Tech's
 Bachelor of Science in Embedded Systems Engineering Technology.**

Can be taken at KCC or Oregon Tech.

Klamath Community College Course Number & Title	Qtr. Units	Oregon Institute of Technology Course Number & Title	Qtr. Units
Humanities elective ³	6	Humanities elective ³	6
MTH 254 Vector Calculus	4	MATH 254N Vector Calculus I	4
PH 211 General Physics (Calculus Based) IV w/ Lab	5	PHY 221 General Physics with Calculus	4
PH 212 General Physics (Calculus Based) IV w/ Lab	5	PHY 222 General Physics with Calculus	4
PH 213 General Physics (Calculus Based) IV w/ Lab	5	PHY 223 General Physics with Calculus or Laboratory Science elective	4
Social Science elective ²	3	Social Science elective ²	3
Additional KCC Credits	26	Additional Oregon Tech Degree Credits	25
Total KCC Credits ¹	114	Total Oregon Tech Degree Credits ¹	84

**In addition to the above courses, the courses listed below are also required for the Bachelor of Science
 in Embedded Systems Engineering Technology and should be completed at Oregon Tech.**

Oregon Institute of Technology Course Number & Title	Qtr. Units
ANTH 452 Globalization	3
BUS 304 Engineering Management	3

CST 133 Digital Logic II	4
CST 134 Instrumentation	1
CST 136 Object-Oriented Programming with C++	4
CST 204 Introduction to Microcontrollers	4
CST 211 Data Structures	4
CST 231 Digital Systems Design I	4
CST 240 UNIX	4
CST 250 Computer Assembly Language	4
CST 276 Software Design Patterns	4
CST 315 Embedded Sensor Interfacing and I/O	4
CST 334 Project Proposal	1
CST 337 Embedded System Architecture	5
CST 347 Real-Time Embedded Operating Systems	4
CST 371 Embedded Systems Development I	4
CST 372 Embedded Systems Development II	3
CST 373 Embedded Systems Development III	2
CST 412 Senior Development Project	3
CST 417 Embedded Networking	4
CST 422 Senior Development Project	3
CST 432 Senior Project Development	2
CST 455 System on a Chip Design	4
CST 456 Embedded System Testing	4
CST 466 Embedded System Security	3
EE 221 Circuits I	4
MATH 465 Mathematical Statistics	4
MGT 345 Engineering Economy	3

SPE 321 Small Group and Team Communication	3
Technical electives (see advisor)	3
WRI 350 Documentation Development	3
Additional Oregon Tech Credits ⁴	105
Total Oregon Tech Degree Credits Accumulated ⁵	189

1. Excess credits will transfer to Oregon Tech as general elective credit; these credits will **not** be used toward the Bachelor of Science in Embedded Systems Engineering Technology Degree.
2. Select courses from the following prefixes KCC prefixes: ATH, ECO, GEO, HST, POL, PSY, SOC or others designated as Social Science Electives by the Oregon Tech Registrar's Office.
3. Select courses from the following KCC prefixes: ART, ENG, MUS, PHL, Second-Year Foreign Languages or others designated as Humanities by the Oregon Tech Registrar's Office. Please note that Oregon Tech only accepts 3 performance or studio based Humanities credits toward the 9 credit total.
4. 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 and 45 credits must be from Oregon Tech.
5. Oregon Tech's Bachelor of Science in Embedded Systems Engineering Technology requires 189 total credits.