College of the Siskiyous
Associate of Science in Computer Science

to

Oregon Institute of Technology
Bachelor of Science in Embedded Systems Engineering Technology
Articulation Agreement
2019-2020 Catalog

It is agreed that students transferring from College of the Siskiyous Associate of Science degree in Computer Science to Oregon Institute of Technology's (Oregon Tech) Bachelor of Science in Embedded Systems Engineering Technology (BEMB) 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 COS and Oregon Tech and is subject to a yearly reevaluation by both schools for continuance. The agreement is dated February 11, 2019.

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 completed 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, students must be attending COS or have catalog rights to the above catalog year. Students must enroll at Oregon Tech within three years of this approval.

By _____
Sunny Greene, PhD
Articulation Officer
College of the Siskiyous

By _____
Carole Bogue, PhD.
Interim VP, Instruction
College of the Siskiyous

By _____
Marla R. Edge, Director
Academic Agreements
Oregon Institute of Technology

By _____
Troy Scever, Program Director
CSET/ESET
Oregon Institute of Technology

By _____
Philip Howard, Acting Chair
CSET
Oregon Institute of Technology

By _____
Wendy Ivie
University Registrar
Oregon Institute of Technology

College of the Siskiyous Course Number & Title	Sem. Units	Oregon Institute of Technology Course Number & Title	Qtr. Units
CSCI 1007 Programming I	3	CST 116 C++ Programming [1]	4
CSCI 1507 Programming II	3	CST 126 C++ Programming II [1]	4
CSCI 2006 Assembly Language Programming	3	CST 131 Computer Architecture	3
CSCI 2010 Discrete Structures	3	General Elective [2]	--
MATH 1100 College Algebra	4	MATH 111 College Algebra	4
MATH 1200 Pre-Calculus	4	MATH 112 Trigonometry	4
MATH 1400 Calculus & Analytic Geometry I	4	MATH 251 Differential Calculus	4
MATH 1500 Calculus & Analytic Geometry II	4	MATH 252 Integral Calculus	4
PHYS 2105 Mechanical Physics, Oscillations (Calculus Based)	4.5	PHYS 221 General Physics w/Calculus	4
PHYS 2110 Electrical Physics, Light	4.5	PHYS 222 General Physics w/ Calculus	4
CSUGE B2 or IGETC 5B: Biological Science	3-4	General Elective [2]	--
CSUGE C1 or IGETC 3A: Arts	3	Humanities Elective [3]	3
CSUGE C2 or IGETC Area 3B: Humanities	3	Humanities Elective [3]	3
CSUGE C3 or IGETC Area 3C: Arts or Humanities	3	Humanities Elective [3]	3
CSUGE D1 or IGETC Area 4: Social & Behavioral Sciences	3	Social Science Elective [4]	3
CSUGE D2 or IGETC Area 4: Social & Behavioral Sciences	3	Social Science Elective [4]	3
CSUGE D3 or IGETC Area 4: Social & Behavioral Sciences PSY 1001	3	PSY 201 General Psychology	3
CSUGE E: Lifelong Learning (only if following CSUGE pattern)	3**	General Elective [2]	--
COMS 1100 Public Speaking	3	SPE 111 Public Speaking	3
ENGL 1001 College Composition	4	WRI 121 English Composition	3
ENGL 1502 Adv. Comp: Critical Thinking	3	WRI 122 Argumentative Writing	3
Total COS Degree Credits [2]	**71-72**	**Total Oregon Tech Degree Credits**	**62**

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

Can be taken at COS or Oregon Tech.

College of the Siskiyous Course Number & Title	Sem. Units	Oregon Institute of Technology Course Number & Title	Qtr. Units
ENGR 2017 Introduction to Circuit Analysis	4	EE 221 Circuits I	4
Laboratory Science elective [5]	4	Laboratory Science elective	4
MATH 2400 Calculus & Analytical Geometry III	4	MATH 254 Vector Calculus I	4
COMS 1200- Small Group Communication [6]	3	SPE 321 Discussion Processes [6]	3
Additional COS Credits [2]	**15**	**Additional Oregon Tech Degree Credits**	**15**
Total COS Semester Credits [2]	**86-87**	**Total Oregon Tech Degree Quarter Credits**	**77**

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 120 Embedded C	4
CST 130 Computer Organization	3
CST 133 Digital Logic II	4
CST 134 Instrumentation	1
CST 136 Object-Oriented Programming with C++	4
CST 162 Digital Logic I	4
CST 204 Introduction to Microcontrollers	4
CST 211 Data Structures	4
CST 231 Digital Systems Design I	4
CST 240 Linux Programming	4

CST 250 Computer Assembly Language	4
CST 276 Software Design Patterns	4
CST 315 Embedded Sensor Interfacing and I/O	4
CST 337 Embedded Sensor Interfacing and I/O	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 374 Embedded Project Proposal	1
CST 417 Embedded Networking	4
CST 455 System on a Chip Design	4
CST 456 Embedded System Testing	4
CST 466 Embedded System Security	3
CST 471 Embedded Senior Project	3
CST 472 Embedded Senior Project	3
CST 473 Embedded Senior Project	2
MATH 465 Mathematical Statistics	4
MGT 345 Engineering Economy	3
Technical elective (see advisor)	3
WRI 227 Technical Report Writing	3
WRI 350 Documentation Development	3
Additional Oregon Tech Credits [7]	**112**
Total Oregon Tech Degree Quarter Credits Accumulated [8]	**189**

1. We will accept, but only if the student agrees to take a proficiency exam when they get to OIT.

2. 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.
3. Select courses from the following COS prefixes: (CSUGE D1,2,3 or IGETC Area 3A, B, C) ART, ENGL, ETHN, HUM, MUS, PHIL, THEA, 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. Select courses from the following COS prefixes: (CSUGE D1,2,3 or IGETC Area 4) ANTH, ECON, GEOG, HIST, POLS, PSY, SOC or others designated as Social Science Electives by the Oregon Tech Registrar's Office.
5. The BEMB program requires 4 credit hours of biological or physical science with lab. Choose from following COS prefixes: BIO, CHEM, GEOL, PHSC, or PHYS.
6. Does not count toward 60 upper-division credit requirement.
7. 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.
8. Oregon Tech's Bachelor of Science Embedded Systems Engineering Technology degree requires 189 credits.