

**About the Program**

The Associate of Science (AS) degree is based on a signed articulation agreement with Oregon Institute of Technology. The program is designed for students transferring to its baccalaureate degree program in Computer Engineering Technology and/or Embedded Systems Engineering Technology and graduates are guaranteed junior standing in the program upon transferring. Students must work closely with advisors in their areas of interest to ensure electives are appropriate. The curriculum allows for 55 core credits within the major area. By completing all appropriate credits (including electives), students will complete required lower division coursework for transfer to Oregon Tech.

Students must work closely with their advisors to ensure transferability. If students transfer before completing this degree or transfer in a major not covered by prior agreements, courses will be evaluated individually toward the transfer requirements of the college of their choice. Students are advised to obtain written approval from Oregon Tech to guarantee their catalog of transfer for three years.

**Program Learning Outcome**

The curriculum in RCC courses is derived from a set of identified learning outcomes that are relevant to the discipline. The program learning outcome for the Computer and Embedded Systems Engineering Technology Transfer to Oregon Tech degree is:

Students will be prepared to transfer into Oregon Tech's Computer and Embedded Systems Engineering program.

**Entry Requirements**

Students are required to complete the Placement Process to determine skill level and readiness in math, reading, and writing. As part of their training program, students must begin with the courses within their skill level as determined through the Placement Process. In addition, students may also be required to enroll in classes that would increase their employability and success.

**Advanced Standing**

Coursework from accredited universities will be accepted in accordance with college policies. In order to ensure that coursework is current, program courses over four years old must be reviewed and approved by the appropriate department chair before being accepted toward core requirements.

**Graduation Requirements**

The Associate of Science degree will be awarded to students who complete all credits in this program with a grade of "C" or better. Certain required courses are graded on a pass/no pass basis only. A grade of "P" for these courses indicates a student earned the equivalent of a "C" or better grade. Students should be aware that Oregon Tech requires a grade of "B" or better in CS161U and CS162U for transfer.

**Prerequisites**

Course No.	Course Title	Credits
CS/CIS	Approved 3-4 credit Computer Science or Computer Information Science class, CS120/CIS120 or above, or documented computer proficiency within the past ten years.	0-4
EET129	Introduction to Embedded Systems	3
MTH95	Intermediate Algebra or designated placement test score	0-4
WR115	Introduction to Expository Writing or designated placement test score	0-3
<b>Total Prerequisite Credits</b>		<b>3-14</b>

**General Education Requirements**

Course No.	Course Title	Credits
LIB127	Introduction to Academic Research	1
MTH111	College Algebra	4
MTH112	Elementary Functions	4
MTH251	Calculus I (Differential)	5
MTH252	Calculus II (Integral)	5
MTH254	Vector Calculus	5
PSY202	General Psychology II	4
SP111	Fundamentals of Public Speaking	4
WR121	English Composition I <sup>1</sup>	4
WR122	English Composition II <sup>1</sup>	4



WR227	Technical Writing	4
	Approved humanities electives <sup>2</sup>	9

**Total General Education Credits 53**

**Core Requirements**

Course No.	Course Title	Credits
CIS140	Introduction to Operating Systems	4
CS161U	Computer Science I (C++)	4
CS162U	Computer Science II (C++)	4
CS234U	Object Oriented Programming in C++	4
EET125	Electronics Fundamentals I (DC)	6
EET126	Electronics Fundamentals II (AC)	6
EET130	Digital Fundamentals I	6
EET131	Digital Fundamentals II	6
EET132	Digital Fundamentals III	5
EET240	Microcontrollers I	5
EET241	Microcontrollers II	5

**Total Core Credits 55**

**TOTAL PROGRAM CREDITS 108**

<sup>1</sup> The 3-credit version of any speech or humanities course taken prior to 2009 will meet the same degree requirements as the current 4-credit version. Students must still complete all required courses in this degree and at least 90 applicable credits to receive an associate degree.

**<sup>2</sup> Approved Humanities Electives**

(Complete 9 credits from the following list. A maximum of three performance or studio-based credits indicated by an asterisk are allowed.)

Course No.	Course Title	Credits
ART115,116*	Basic Design	3-3
ART131,132,133*	Introduction to Drawing	3-3-3
ART204,205,206	History of Art I, II, III	4-4-4
ART234,235,236*	Figure Drawing I, II, III	3-3-3
ART237,238,239*	Illustration	3-3-3
ART281,282,283*	Painting I, II, III	3-3-3
ENG104,105,106	Introduction to Literature	4-4-4
ENG107,108,109	World Literature	4-4-4
ENG201,202	Shakespeare I, II	4-4
ENG204,205,206	Survey of English Literature	4-4-4
ENG253,254,255	Survey of American Literature	4-4-4

ENG257	African American Literature	4
ENG260	Introduction to Women Writers	4
ENG275	The Bible as Literature	4
HUM101,102,103	Introduction to Humanities	4-4-4
HUM215,216,217,218,219	Native American Arts and Cultures	4-4-4-4-4
MUS101	Music Fundamentals	3
MUS105	Music Appreciation	3
MUS108	Music in World Cultures	4
MUS111,112,113	Music Theory and Aural Skills I, II, III	4-4-4
MUS201	Introduction to Western Music	4
MUS205	History of Jazz	3
MUS206	Introduction to Rock Music	3
MUS208	Film Music	3
MUS211,212,213	Music Theory and Aural Skills IV, V, VI	4-4-4
MUS261,262,263	History of Western Music I, II, III	4-4-4
MUS264,265,266	History of Rock I, II, III	3-3-3
PHL101,102,103	Philosophical Problems/Ethics/Critical Reasoning	4-4-4
REL201	World Religions	4
REL243	Nature, Religion and Ecology	4
SPAN201,202,203	Second Year Spanish I, II, III	4-4-4

For more information contact the Electronics Technology Department:

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This advising guide is for advising purposes only. Please see current college catalog for additional information on specific college policies and graduation requirements.

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