About the Program

This Associate of Science (AS) degree is based on a signed articulation agreement with Oregon Tech (OT). The degree transfers directly into the bachelor’s degree program at Oregon Tech in software engineering technology and graduates are guaranteed junior standing in the program. Students must work closely with their advisors in their areas of interest to ensure electives are appropriate. The curriculum allows for 36 core credits within the major area. By completing all appropriate credits (including electives), students will fulfill required lower division coursework for transfer to OT.

Students must work closely with their advisors to ensure transferability of this program. 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 Software Engineering Technology Transfer to Oregon Tech degree is:

Students will be prepared to transfer into Oregon Tech’s Software 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 five 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 “B” 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” in CS162U and CS234U for transfer.

Prerequisites

Course No. | Course Title | Credits
--- | --- | ---
CS15 | Approved 3-credit Computer Science or Computer Information Science class, CS210/CS120 or above, or documented computer proficiency within the past ten years. | 0.4
EET129 | Introduction to Embedded Systems | 3
MTH111/112 | College Algebra/Elementary Functions | 0.8
WR115 | Introduction to Expository Writing or designated placement test score | 0.3

Total Prerequisite Credits | 3-18

General Education Requirements

Course No. | Course Title | Credits
--- | --- | ---
LIB127 | Introduction to Academic Research | 1
MTH251 | Calculus I (Differential) | 5
MTH252 | Calculus II (Integral) | 5
MTH254 | Vector Calculus | 5
PH211 | General Physics I (Calculus based) | 5
PH212 | General Physics II (Calculus based) | 5
PH213 | General Physics III (Calculus based) | 5
PSY202 | General Psychology II | 4
SPI11 | Fundamentals of Public Speaking | 4
WR121 | English Composition I | 4
WR122 | English Composition II | 4

TOTAL GENERAL EDUCATION REQUIREMENTS | 58-59

Core Requirements

Course No. | Course Title | Credits
--- | --- | ---
CIS161U | Computer Science I (C++) | 4
CIS140 | Introduction to Operating Systems | 4
CIS162U | Computer Science II (C++) | 4
CS234U | Object Oriented Programming with C++ | 4
CS260 | Data Structures | 4
EET125 | Electronics Fundamentals I (DC) | 5
EET130 | Digital Fundamentals I | 6
EET240 | Microcontrollers | 5

TOTAL CORE CREDITS | 36

TOTAL PROGRAM CREDITS | 94-95

¹ Approved Humanities Electives

(Course 7-8 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
--- | --- | ---
ART115U | Basic Design | 3-3
ART131 U,132 U,133 U | Introduction to Drawing | 3-3-3
ART204,205,206 | History of Art I, II, III | 4-4-4
ART234,235,236 U | Figure Drawing I, II, III | 3-3-3
ART237,238,239 U | Illustration | 3-3-3
ART281,282,283 U | 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

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
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<tr>
<td>MUS205</td>
<td>History of Jazz</td>
<td>3</td>
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<tr>
<td>MUS206</td>
<td>Introduction to Rock Music</td>
<td>3</td>
</tr>
<tr>
<td>MUS208</td>
<td>Film Music</td>
<td>3</td>
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<tr>
<td>MUS211,212,213</td>
<td>Music Theory and Aural Skills IV, V, VI</td>
<td>4-4-4</td>
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<td>MUS261,262,263</td>
<td>History of Western Music I, II, III</td>
<td>4-4-4</td>
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<td>MUS264,265,266</td>
<td>History of Rock I, II, III</td>
<td>3-3-3</td>
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<tr>
<td>PHL101,102,103</td>
<td>Philosophical Problems/Ethics/Critical Reasoning</td>
<td>4-4-4</td>
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<td>REL201</td>
<td>World Religions</td>
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<tr>
<td>REL243</td>
<td>Nature, Religion and Ecology</td>
<td>4</td>
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<tr>
<td>SPAN201,202,203</td>
<td>Second Year Spanish I, II, III</td>
<td>4-4-4</td>
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For more information contact the Computer Science Department:

Grants Pass ........................................................ 541-956-7213
Medford ................................................................. 541-245-7527
Toll free in Oregon ......................... 800-411-6508, Ext. 7213 or Ext. 7527
email ................................................................. cs@roguecc.edu
Web address ...................................................... www.roguecc.edu/computerscience
TTY ................................................................. Oregon Telecom Relay Service, 711

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

RCC is an open institution and does not discriminate. For RCC’s non-discrimination policy and a full list of regulatory specific contact persons visit the following webpage: www.roguecc.edu/nondiscrimination.