



## COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

This form should be completed electronically and the boxes will expand to accommodate text.

<b>College:</b> Clackamas Community College	<b>Date:</b> 11/9/16
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CAREER LEARNING AREA	
<input type="checkbox"/> Ag, Food & Natural Resource Systems	<input type="checkbox"/> Health Services
<input type="checkbox"/> Arts, Information & Communications	<input type="checkbox"/> Human Resources
<input type="checkbox"/> Business & Management	<input checked="" type="checkbox"/> Industrial & Engineering Systems

PROGRAM INFORMATION					
<u>APPROVED</u> Program Title	<u>APPROVED</u> CIP Code <small>(Include 7<sup>th</sup> &amp; 8<sup>th</sup> digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	<u>Curren</u> <u>t</u> Credits
	<u>6-digit CIP</u>	<u>7<sup>th</sup> digit</u>	<u>8<sup>th</sup> digit</u>		
AS Area of Emphasis Title: Engineering – Civil Engineering				Associate of Applied Science Area of Emphasis	97
Partnering Institution Name Oregon State University					

TYPE OF PROGRAM AMENDMENT			
<small>(Check ALL That Apply)</small>			
<input type="checkbox"/> New Agreement	<input checked="" type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits	
		<i>Proposed Total Credits:</i>	96
<input type="checkbox"/> <b>SUSPENSION</b> of Program	<i>Reason for Suspension:</i>		
<b>Suspension Effective Date:</b>			

## CURRICULUM AMENDMENT

[List in a Defined Sequence of Courses Format, e.g., Quarter-to-quarter mapping.  
For a New Program, complete the Proposed Curriculum section only.]


### CURRENT CURRICULUM 2016-17

[List entire curriculum as last approved]

### PROPOSED CURRICULUM 2017-18

[List only course(s) to be amended]

Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
<b>Program Requirements – 1<sup>st</sup> Year</b>							
<b>Fall Term</b>							
CH-221	General Chemistry	77	5				
EC-201	Principles of Economics: MICRO	44	4				
ENGR-111	Introduction to Engineering	33	3				
MTH-251	Calculus I	55	5				
<b>Winter Term</b>							
CH-222	General Chemistry	77	5				
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
WR-121	English Composition	44	4				
<b>Spring Term</b>							
COMM-111	Public Speaking	44	4				
ENGR-115	Engineering Graphics	33	3				
MTH-254	Vector Calculus	55	5				
WR-227	Technical Report Writing	44	4				
<b>Summer Term</b>							
GIS-201	Introduction to Geographic Information System	66	3				
MTH-256	Differential Equations	44	4				
<b>Program Requirements – 2<sup>nd</sup> Year</b>							
<b>Fall Term</b>							
ENGR-211	Statistics	44	4				
PH-211	General Physics with Calculus	70	5				
--	Western Culture elective		4				
<b>Winter Term</b>							
ENGR-212	Dynamics	44	4				
MTH-253	Calculus III	55	5				
PH-212	General Physics with Calculus	70	5				
<b>Spring Term</b>							
ENGR-213	Strength of Materials	44	4				
ENGR-224	Electrical Circuit Analysis	66	4	HPE-295	Health and Fitness for Life	33	3
PH-213	General Physics with Calculus	70	5				
<b>Western Culture Elective</b>							
ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 203, 204, 205, 250, 251, 253, 254, 255, 275; GEO-122, 208, 230; HST-101, 102, 103, 201, 202, 203; PHL-102, 215; PS-206; R-204							
Optional: While not required for the A.S. degree, students may complete additional coursework at CCC that will meet requirements for the Bachelor of Science degree at Oregon State University. The Bachelor of Science degree requires the completion of one course from each category below.							
<b>Cultural Diversity Elective</b>							
ANT-230, 231, 232; ENG-210, 213, 252; GEO-110, 121, 230; R-101, 102, 103, 210							
<b>Literature and the Arts Elective</b>							

ART-101, 102, 103, 204, 205, 206, 211, 212, 213; DMC-194; ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 203, 204, 205, 213, 250, 251, 252, 253, 254, 255, 260, 275; MUS-105, 206, 206		
<b>Difference, Power, and Discrimination Elective</b>		
HST-201, 202, 203; SOC-225		
<b>Biological Science Elective</b>		
ASC-200, 201, 202; BI-101, 102, 103, 204, 211, 212, 213, 234, ESR-171, 172, 173; Z-201, 202, 203		
<b>Physical Education Elective</b>		
HPE-295		Remove these two lines
<b>TOTAL CURRENT CREDITS:</b>	97	<b>TOTAL PROPOSED CREDITS:</b> 96
<b>College Contact</b>	Janice Nave-Abel	<b>Telephone No.</b>
<b>E-Mail Address</b>	Janice.Nave-Abel@oregonstate.edu	<b>Fax No.</b>
<b>Chief Academic Officer or CTE Dean Signature</b>		<b>Date</b> 1/19/17

