



## Program Suspensions

February 7, 2020 (8-9:30am, CC127)

Program	Implementation
Paraeducator CC	2020/SU



## COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

(For changes to State Approved Associate of Applied Science degree, AAS option and Certificate of Completion programs)

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

Current instructions, forms, handouts and other useful resources are located at

<http://www.ode.state.or.us/search/results/?id=231>

<b>College:</b>	<b>Clackamas Community College</b>	<b>Date</b>	<b>1/10/2020</b>
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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 type="checkbox"/> Industrial & Engineering Systems

### PROGRAM INFORMATION

<u>APPROVED</u> Program Title  <small>(For Official Program Title, refer to your directory at <a href="http://www.ode.state.or.us/search/results/?id=232">http://www.ode.state.or.us/search/results/?id=232</a>)</small>	<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	Current Credits
	<u>6-digit CIP</u>	<u>7<sup>th</sup> digit</u>	<u>8<sup>th</sup> digit</u>		
<b>AAS Title:</b>				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
<b>Option Title**</b>				<input type="checkbox"/> <b>OPTION</b> to AAS Degree	
<b>Certificate Title:</b> <i>Within</i> AAS Degree? <input type="checkbox"/> Yes** <input checked="" type="checkbox"/> No <b>Paraeducator</b>	<b>13.1501</b>			<input checked="" type="checkbox"/> <b>SSC1 Statewide Certificate (45-60 credits)</b>	<b>47</b>

\*\*Enter name of base degree in 'AAS Title' box

### TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)


<input type="checkbox"/> <b>New Program++</b>	<input type="checkbox"/> <b>Curriculum Revision</b>	<input type="checkbox"/> <b>Revision in Program Credits</b>
<input type="checkbox"/> <b>Title Change for Program</b>		<b>Proposed Total Credits:</b> _____
<b>Proposed AAS Title:</b>	_____	
<b>Proposed OPTION Title:</b>	_____	
<b>Proposed Certificate Title:</b>	_____	
<input checked="" type="checkbox"/> <b>SUSPENSION of Program</b>	<i>Reason for Suspension: No longer academically relevant for students. Does not provide a good career pathway.</i>	
<b>Suspension Effective Date:</b>	<b>Summer term 2020</b>	

++If new program is an additional award for an existing degree or certificate, complete 'Program Information' section for existing program.

## 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.]

<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Fall Term							
ED-100	Introduction to Education	33	3				
ED-113	Instructional Strategies in Reading & Language Arts	33	3				
ED-130	Comprehensive Classroom Management	33	3				
ED-235	Educational Technology	33	3				
Winter Term							
ED-169	Overview of Students with Special Needs	33	3				
ED-200	Foundations of Education	33	3				
ED-229	Learning & Development	33	3				
ED-254	Instructional Strategies for Dual Language Learners	33	3				
Spring Term							
ED-114	Instructional Strategies in Math & Science	33	3				
ED-131	Instructional Strategies	33	3				
<b>ED-258</b>	<b>Multicultural Education</b>	<b>33</b>	<b>3</b>				
ED-280	Practicum/CWE	108	3				
Summer Term							
<b>MTH-065</b>	<b>Algebra II</b>	<b>44</b>	<b>4</b>				
<b>WR-121</b>	<b>English Composition</b>	<b>44</b>	<b>4</b>				
--	General electives (any college level course)		3				
<b>TOTAL CURRENT CREDITS:</b>			47	<b>TOTAL PROPOSED CREDITS:</b>			

<b>College Contact</b>	Laurette Scott	<b>Telephone No.</b>	3840
<b>E-Mail Address</b>	laurette@clackamas.edu	<b>Fax No.</b>	
<b>Chief Academic Officer or PTE Dean Signature</b>			<b>Date</b> 1/10/20

**Program Name:** Paraeducator Certificate

**Program Type:** Career Technical Education

**Required Program Credits:** 47

**Plan Implementation Date:** Starting the 2020-21 Academic Year

**Date of Suspension of Student Admission:** Summer 2020

**Last Term of Program Teach Out:** Spring 2020

**# of Students in Program:** 10

**Source for Student Enrollment:** Reporting data was supplied by Stephen Brouwers in Planning and Research at CCC.

#### **Teach Out Plan:**

**Background:** The Paraeducator Certificate requires suspension as it is no longer academically relevant or advantageous for students and does not provide a good pathway for achieving career goals in the field of Education.

In the past, employers sought out students with a Paraeducator Certificate, but now they longer require it. Continuing to offer the Paraeducator Certificate would be a disservice to our students as completing the certificate will only lead them to a dead-end path.

We wish to suspend the Paraeducator Certificate as of Summer 2020.

#### **Teach-Out Plan Specifics:**

1. The 10 students in the CC.PARAEDUCATOR program of study were emailed on 9/4/19 that the certificate would be suspended as of the 2020-21 academic year. The email informed the students that all courses related to the Paraeducator Certificate will continue to be offered through the 2019-2020 academic year and to contact Laurette Scott for any completion or substitution questions. We also offered Jodi Stapleton's contact information for advising assistance. We will continue to email students quarterly during the teach out period.
2. Following the 2019-2020 academic year, any completion or substitution questions or needs will continue be addressed by Laurette Scott, the Paraeducator Program Lead.
  - If courses are substituted, the student will not be required to pay for any more credits than they would have paid for in the original certificate.
  - Laurette Scott will continue to provide faculty advising assistance to students wishing to change their program of study.
    - Jodi Stapleton will also be available to provide advising assistance to students.

3. The suspension of the Paraeducator Certificate was approved by the Paraeducator Advisory Committee.
4. Post-suspension student inquiries regarding the Paraeducator Certificate will be informed by phone, email or in person that the certificate is no longer being offered and assistance of the faculty advisor or other advisor will be offered.

*(This plan must allow students to complete a goal without being disadvantaged. The plan cannot cost the student additional money. The teach out plan can include solutions to situations that would result in additional student costs, such as offering free tuition to students for the additional courses they may have to complete in order to be awarded a degree. The teach-out plan should also consider how the department will handle students who want to return to the degree program, but were not enrolled in the program at the time of termination. The following grid must be completed as part of the Teach Out Plan.)*

<b>How will these promises to the students be met?</b>	<b>Describe</b>
Maintain the necessary experience, resources, and support services	The Paraeducator Teach-out plan will be available on the Education Department Drive for future reference. <b>Courses in the Paraeducator certificate program will continue to be taught at CCC allowing students to continue in the future. A Computer Science course can be substituted for the one course we will no longer offer. Students can complete in the future at no additional cost in the same time frame. Instructors and advisors will be able to assist students with completion plans</b>
Remain stable, carry out its mission, and meet all its obligations to students	All the courses related to the Paraeducator Certificate will be offered through the 2019-2020 academic year. Any students wishing to complete the certificate after the 2019-2020 academic year can contact the Program Lead, Laurette Scott, for completion or substitution assistance.
Offer the program without additional charge	Students can complete by Spring 2020 with no additional charges beyond the normal costs. Beyond Spring 2020, our advisors may substitute or waive required courses to assist with completion. Students will not be required to pay for more than the 47 credits on the original certificate.

**Communication plan with students:**

*(This plan must explain how students will receive communication regarding the suspension of a program. Examples include meetings, emails, and letters. In some cases multiple meetings at different times of the day may be required.)*

Program	Implementation
AS, Biological Engineering, OSU	
AS, Biology, OSU	
AS, Chemical Engineering, OSU	
AS, Civil Engineering, OSU	
AS, Civil/Environmental Engineering, PSU	
AS, Construction Engineering Management, OSU	
AS, Ecological Engineering, OSU	
AS, Electrical Engineering, OSU	
AS, Electrical/Computer Engineering, PSU	
AS, Energy Systems Engineering, OSU	
AS, Environmental Engineering, OSU	
AS, Industrial/Manufacturing Engineering, OSU	2020/SU
AS, Mechanical Engineering, OSU	
AS, Mechanical Engineering, PSU	
CTE Instruction CC	
Early Childhood Education & Family Studies AAS	
Early Childhood Education & Family Studies CC	
Electrician Apprenticeship Technologies AAS	
Fire Science (Wildland) CC	
Wilderness Survival & Leadership CPCC	
Wildland Fire Forestry CPCC	
Wildland Fire Management AAS	
Wildland FireFighter 1 CPCC	



## 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>	
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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					
<i>APPROVED</i> Program Title	<i>APPROVED</i> CIP Code <small>(Include 7<sup>th</sup> &amp; 8<sup>th</sup> digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7<sup>th</sup> digit</i>	<i>8<sup>th</sup> digit</i>		
AS Area of Emphasis Title: Engineering – Biological Engineering				Associate of Applied Science Area of Emphasis	107
Partnering Institution Name Oregon State University					

Last amendment approved on 01.18.19


TYPE OF PROGRAM AMENDMENT <small>(Check ALL That Apply)</small>		
<input type="checkbox"/> New Agreement	<input type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
		<i>Proposed Total Credits:</i>
<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.]

<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [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>							
COMM-111	Public Speaking	44	4				
ENGR-111	Introduction to Engineering	33	3				
MTH-251	Calculus I	55	5				
WR-121	English Composition	44	4				
<b>Winter Term</b>							
BI-204	Elementary Microbiology	66	4				
CH-221	General Chemistry	77	5				
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
<b>Spring Term</b>							
CH-222	General Chemistry	77	5				
MTH-254	Vector Calculus	55	5				
WR-227	Technical Report Writing	44	4				
<b>Summer Term</b>							
CH-223	General Chemistry	77	5				
MTH-256	Differential Equations	44	4				
--	Social Process elective		4				
<b>Program Requirements – 2<sup>nd</sup> Year</b>							
<b>Fall Term</b>							
CH-241	Organic Chemistry I	77	5				
ENGR-211	Statics	44	4				
PH-211	General Physics with Calculus	70	5				
<b>Winter Term</b>							
CH-242	Organic Chemistry II	77	5				
MTH-253	Calculus III	55	5				
PH-212	General Physics with Calculus	70	5				
<b>Spring Term</b>							
CH-243	Organic Chemistry III	77	5				
ENGR-201	Electrical Fundamentals	66	4				
PH-213	General Physics with Calculus	70	5				
--	Western Culture elective		4				
<b>Social Processes Elective</b>							
ANT-103; EC-201, 202; HST-101, 102, 103; PS-201, 204, 205, 225; PSY-110, 200, 205, 219, 231; SOC-204, 205, 206;							
<b>Western Culture Elective</b>							
ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-208; HST-101, 102, 103, 132, 201, 202, 203; PHL-102; R-204;							
<b>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>							



<b>Cultural Diversity Elective</b>			
ANT-231, 232; ENG-213, 252; R-101, 102, 103, 210;			
<b>Literature and the Arts Elective</b>			
ART-101, 102, 103, 204, 205, 206; DMC-194; ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205, 213, 241, 250, 251, 252, 253, 254, 255, 260, 270; MUS-105, 205, 206;		ART-101, 102, 103, 204, 205, 206; DMC-194; ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205, 213, 241, 250, 251, 252, 253, 254, 255, 260, 270; MUS-105, 205, 206;	
<b>Difference, Power, and Discrimination Elective</b>			
HST-201, 202, 203; SOC-225			
<b>Physical Education Elective</b>			
HPE-295			
<b>TOTAL CURRENT CREDITS:</b>		107	<b>TOTAL PROPOSED CREDITS:</b>
<b>College Contact</b>		<b>Telephone No.</b>	
<b>E-Mail Address</b>		<b>Fax No.</b>	
<b>Chief Academic Officer or CTE Dean Signature</b>			<b>Date</b> 1/27/20



## 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>	
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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	Current Credits
	<u>6-digit CIP</u>	<u>7<sup>th</sup> digit</u>	<u>8<sup>th</sup> digit</u>		
<b>AS Area of Emphasis Title: Engineering – Chemical Engineering</b>				<b>Associate of Applied Science Area of Emphasis</b>	<b>103</b>
<b>Partnering Institution Name Oregon State University</b>					


Last amendment approved on 01.18.19

TYPE OF PROGRAM AMENDMENT <small>(Check ALL That Apply)</small>		
<input type="checkbox"/> New Agreement	<input checked="" type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
		<i>Proposed Total Credits:</i>
<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.]

<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
<b>Program Requirements – 1<sup>st</sup> Year</b>							
<b>Fall Term</b>							
COMM-111	Public Speaking	44	4				
ENGR-111	Introduction to Engineering	33	3				
MTH-251	Calculus I	55	5				
WR-121	English Composition	44	4				
<b>Winter Term</b>							
CH-221	General Chemistry	77	5				
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
WR-227	Technical Report Writing	44	4				
<b>Spring Term</b>							
CH-222	General Chemistry	77	5				
MTH-254	Vector Calculus	55	5				
--	Social Processes elective		4				
<b>Summer Term</b>							
CH-223	General Chemistry	77	5				
MTH-256	Differential Equations	44	4				
<b>Program Requirements – 2<sup>nd</sup> Year</b>							
<b>Fall Term</b>							
CH-241	Organic Chemistry I	77	5				
ENGR-211	Statics	44	4				
PH-211	General Physics with Calculus	70	5				
<b>Winter Term</b>							
CH-242	Organic Chemistry II	77	5				
MTH-253	Calculus III	55	5				
PH-212	General Physics with Calculus	70	5				
<b>Spring Term</b>							
CH-243	Organic Chemistry III	77	5				
ENGR-201	Electrical Fundamentals	66	4				
PH-213	General Physics with Calculus	70	5				
--	Western Culture elective		4				
<b>Social Processes Elective</b>							
<b>ANT-103;</b> <b>EC-201, 202;</b> <b>HST-101, 102, 103;</b> <b>PS-201, 204, 205, 225;</b> <b>PSY-110, 200, 205, 219, 231;</b> <b>SOC-204, 205, 206;</b>							
<b>Western Culture Elective</b>							
<b>ART-204, 205, 206;</b> <b>ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255;</b> <b>GEO-208;</b> <b>HST-101, 102, 103, 132, 201, 202, 203;</b> <b>PHL-102;</b> <b>R-204;</b>							
<b>Optional:</b> 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-231, 232; ENG-213, 252; R-101, 102, 103, 210;			
Literature and the Arts Elective			
ART-101, 102, 103, 204, 205, 206; DMC-194; ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205, 213, 241, 250, 251, 252, 253, 254, 255, 260, 270; MUS-105, 205, 206;		ART-101, 102, 103, 204, 205, 206; DMC-194; ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205, 213, 241, 250, 251, 252, 253, 254, 255, 260, 270; MUS-105, 205, 206;	
Difference, Power, and Discrimination Elective			
HST-201, 202, 203; SOC-225;			
Biological Science Elective			
BI-101, 102, 103, 175, 176, 177, 204, 211, 212, 213, 234; ESR-171, 172, 173; Z-201, 202, 203;			
Physical Education Elective			
HPE-295;			
<b>TOTAL CURRENT CREDITS:</b>		103	<b>TOTAL PROPOSED CREDITS:</b>
<b>College Contact</b>		<b>Telephone No.</b>	
<b>E-Mail Address</b>		<b>Fax No.</b>	
<b>Chief Academic Officer or CTE Dean Signature</b>			<b>Date</b> 1/27/20



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


Last amendment approved on 01.18.19

TYPE OF PROGRAM AMENDMENT <small>(Check ALL That Apply)</small>		
<input type="checkbox"/> New Agreement	<input type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
		<i>Proposed Total Credits:</i>
<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.]

<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
<b>Program Requirements – 1<sup>st</sup> Year</b>							
<b>Fall Term</b>							
CH-221	General Chemistry	77	5				
ENGR-111	Introduction to Engineering	33	3				
MTH-251	Calculus I	55	5				
WR-121	English Composition	44	4				
<b>Winter Term</b>							
CDT-103	Computer-Aided Drafting I	66	3				
CH-222	General Chemistry	77	5				
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
<b>Spring Term</b>							
COMM-111	Public Speaking	44	4				
EC-201	Principles of Economics: MICRO	44	4				
MTH-254	Vector Calculus	55	5				
WR-227	Technical Report Writing	44	4				
<b>Summer Term</b>							
GIS-201	Introduction to Geographic Information Systems	66	3				
MTH-256	Differential Equations	44	4				
<b>Program Requirements – 2<sup>nd</sup> Year</b>							
<b>Fall Term</b>							
ENGR-211	Statics	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-201	Electrical Fundamentals	66	4				
ENGR-213	Strength of Materials	44	4				
PH-213	General Physics with Calculus	70	5				
<b>Western Culture Elective</b>							
<b>ART-204, 205, 206;</b> <b>ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255;</b> <b>GEO-208;</b> <b>HST-101, 102, 103, 132, 201, 202, 203;</b> <b>PHL-102;</b> <b>R-204;</b>							
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>							
<b>ANT-231, 232;</b> <b>ENG-213, 252;</b> <b>R-101, 102, 103, 210;</b>							
<b>Literature and the Arts Elective</b>							
<b>ART-101, 102, 103, 204, 205, 206;</b>				<b>ART-101, 102, 103, 204, 205, 206;</b>			

<b>DMC-194;</b> <b>ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205,</b> <b>213, 241, 250, 251, 252, 253, 254, 255, 260, 270;</b> <b>MUS-105, 205, 206;</b>		<b>DMC-194;</b> <b>ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205,</b> <b>213, 241, 250, 251, 252, 253, 254, 255, 260, 270;</b> <b>MUS-105, 205, 206;</b>	
Difference, Power, and Discrimination Elective			
<b>HST-201, 202, 203;</b> <b>SOC-225;</b>			
Biological Science Elective			
<b>BI-101, 102, 103, 175, 176, 177, 204, 211, 212, 213, 234;</b> <b>ESR-171, 172, 173;</b> <b>Z-201, 202, 203;</b>			
<b>TOTAL CURRENT CREDITS:</b>		97	<b>TOTAL PROPOSED CREDITS:</b>
<b>College Contact</b>		<b>Telephone No.</b>	
<b>E-Mail Address</b>		<b>Fax No.</b>	
<b>Chief Academic Officer or CTE Dean Signature</b>			<b>Date</b> 1/27/20



## 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>	
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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	Current Credits
	<u>6-digit CIP</u>	<u>7<sup>th</sup> digit</u>	<u>8<sup>th</sup> digit</u>		
<b>AS Area of Emphasis Title: Engineering – Civil/Environmental</b>				<b>Associate of Applied Science Area of Emphasis</b>	<b>96-100</b>
<b>Partnering Institution Name Portland State University</b>					

Last amendment approved on 04.05.19

TYPE OF PROGRAM AMENDMENT <small>(Check ALL That Apply)</small>		
<input type="checkbox"/> New Agreement	<input type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
		<i>Proposed Total Credits:</i>
<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.]

<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
<b>Program Requirements – First Year</b>							
<b>Fall Term</b>							
CH-221	General Chemistry	77	5				
ENGR-111	Introduction to Engineering	33	3				
MTH-251	Calculus I	55	5				
WR-121	English Composition	44	4				
<b>Winter Term</b>							
BI-204*	Elementary Microbiology	66	4				
CH-222	General Chemistry	77	5				
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
<b>Spring Term</b>							
COMM-111	Public Speaking	44	4				
GIS-201	Introduction to Geographic Information Systems	66	3				
MTH-254	Vector Calculus	55	5				
WR-227	Technical Report Writing	44	4				
--	Arts & Letters elective		4				
<b>Program Requirements – Second Year</b>							
<b>Fall Term</b>							
ENGR-211	Statics	44	4				
PH-211	General Physics with Calculus	70	5				
--	Arts & Letters elective		4				
--	Social Science elective		4				
<b>Winter Term</b>							
CDT-103	Computer-Aided Drafting I	66	3				
ENGR-212	Dynamics	44	4				
MTH-256	Differential Equations	44	4				
PH-212	General Physics with Calculus	70	5				
<b>Spring Term</b>							
ENGR-213	Strength of Materials	44	4				
MTH-261	Linear Algebra	44	4				
PH-213	General Physics with Calculus	70	5				
--	Arts & Letters or Social Science elective		4				
<b>Catalog Note:</b>							
*Environmental Track only							
<b>Arts &amp; Letters Electives</b>							
All courses in <b>ASL, COMM, ENG, FR, GER, HUM, PHL, SPN, WR</b> . Note that native speakers should only take advanced (300 level or above) foreign language courses. Non-performance based courses in art, journalism, music, and theater also meet this requirement. The accepted courses at CCC are: <b>ART-101, 102, 103, 205, 206;</b> <b>J-211;</b> <b>MUS-105, 141, 205, 206, 230;</b> <b>TA-101, 102;</b>				All courses in <b>ASL, COMM, ENG, FR, GER, HUM, PHL, SPN, WR</b> . Note that native speakers should only take advanced (300 level or above) foreign language courses. Non-performance based courses in art, journalism, music, and theater also meet this requirement. The accepted courses at CCC are: <b>ART-101, 102, 103, 205, 206;</b> <b>J-211;</b> <b>MUS-105, 141, 205, 206, 230;</b> <b>TA-101, 102;</b>			
<b>Social Science Electives</b>							
All courses in <b>ANT, EC, GEO, HST, PS, PSY, SOC, SSC, and WS</b> .							
<b>Recommended:</b>							

Recommended: Civil Engineers should take Plane Surveying (CE-211/CS-212) at PSU before beginning their junior year at PSU. The course is offered in the spring and summer terms at PSU. It is also recommended that a civil/environmental engineering student complete one additional Arts & Letters or Social Science elective.

<b>TOTAL CURRENT CREDITS:</b>	96-100	<b>TOTAL PROPOSED CREDITS:</b>	
<b>College Contact</b>	Eric Lee	<b>Telephone No.</b>	6163
<b>E-Mail Address</b>		<b>Fax No.</b>	
<b>Chief Academic Officer or CTE Dean Signature</b>		<b>Date</b>	1/27/20



## 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>	
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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					
<i>APPROVED</i> Program Title	<i>APPROVED</i> CIP Code <small>(Include 7<sup>th</sup> &amp; 8<sup>th</sup> digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7<sup>th</sup> digit</i>	<i>8<sup>th</sup> digit</i>		
<b>AS Area of Emphasis Title: Engineering – Construction Engineering Management</b>				<b>Associate of Applied Science Area of Emphasis</b>	<b>91-93</b>
<b>Partnering Institution Name Oregon State University</b>					

Elective credits changed during catalog edits, NOT APPROVED


Last amendment approved on 01.18.19

TYPE OF PROGRAM AMENDMENT <small>(Check ALL That Apply)</small>		
<input type="checkbox"/> New Agreement	<input type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
		<i>Proposed Total Credits:</i>
<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.]

<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [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				
ENGR-111	Introduction to Engineering	33	3				
MTH-251	Calculus I	55	5				
WR-121	English Composition	44	4				
<b>Winter Term</b>							
BA-226	Business Law I	44	4				
CDT-103	Computer-Aided Drafting I	66	3				
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
<b>Spring Term</b>							
EC-201	Principles of Economics: MICRO	44	4				
EC-202	Principles of Economics: MACRO	44	4				
— —	Biological Science elective		4-5				
— —	Literature and the Arts elective		3-4				
<b>Program Requirements – 2<sup>nd</sup> Year</b>							
<b>Fall Term</b>							
ENGR-211	Statics	44	4				
HPE-295	Health & Fitness for Life	60	3				
PH-211	General Physics with Calculus	70	5				
<b>Winter Term</b>							
BA-215	Fundamentals of Accounting (online through OSU)		4				
PH-212	General Physics with Calculus	70	5				
PHL-102	Ethics	44	4				
— —	Cultural Diversity elective		4				
<b>Spring Term</b>							
COMM-111	Public Speaking	44	4				
ENGR-213	Strength of Materials	44	4				
ENGR-390	Engineering Economy (online through OSU)		3				
WR-227	Technical Report Writing	44	4				
<b>Cultural Diversity Elective</b>							
ANT-231, 232; ENG-213, 252; R-101, 102, 103, 210;							
<b>Literature and the Arts Elective</b>							
ART-101, 102, 103, 204, 205, 206; DMC-194; ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205, 213, 241, 250, 251, 252, 253, 254, 255, 260, 270; MUS-105, 205, 206;				ART-101, 102, 103, 204, 205, 206; DMC-194; ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205, 213, 241, 250, 251, 252, 253, 254, 255, 260, 270; MUS-105, 205, 206;			
<b>Biological Science Elective</b>							
BI-101, 102, 103, 175, 176, 177, 204, 211, 212, 213, 234; ESR-171, 172, 173; Z-201, 202, 203;							
<b>Catalog Notes</b>							

Optional: While not required for the AS 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 the category below.			
<b>Difference, Power, and Discrimination Elective</b>			
HST-201, 202, 203; SOC-225;			
<b>TOTAL CURRENT CREDITS:</b>	91-93	<b>TOTAL PROPOSED CREDITS:</b>	
<b>College Contact</b>		<b>Telephone No.</b>	
<b>E-Mail Address</b>		<b>Fax No.</b>	
<b>Chief Academic Officer or CTE Dean Signature</b>			<b>Date</b> 1/27/20



## 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>	
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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	Current 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 – Ecological Engineering				Associate of Applied Science Area of Emphasis	102-103
Partnering Institution Name Oregon State University					


Last amendment approved on 01.18.19

TYPE OF PROGRAM AMENDMENT		
<small>(Check ALL That Apply)</small>		
<input type="checkbox"/> New Agreement	<input type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
		<i>Proposed Total Credits:</i>
<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.]

CURRICULUM AMENDMENT							
<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Program Requirements – 1 <sup>st</sup> Year							
Fall Term							
COMM-111	Public Speaking	44	4				
ENGR-111	Introduction to Engineering	33	3				
MTH-251	Calculus I	55	5				
WR-121	English Composition	44	4				
Winter Term							
CH-221	General Chemistry	77	5				
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
--	Literature and the Arts Elective		3-4				
Spring Term							
CH-222	General Chemistry	77	5				
MTH-254	Vector Calculus	55	5				
WR-227	Technical Report Writing	44	4				
Summer Term							
CH-223	General Chemistry	77	5				
MTH-256	Differential Equations	44	4				
Program Requirements – 2 <sup>nd</sup> Year							
Fall Term							
BI-211	General Biology for Science Majors (Cellular Biology)	77	5				
ENGR-211	Statics	44	4				
PH-211	General Physics with Calculus	70	5				
Winter Term							
BI-212	General Biology for Science Majors (Animal Biology)	77	5				
MTH-253	Calculus III	55	5				
PH-212	General Physics with Calculus	70	5				
Spring Term							
BI-213	General Biology for Science Majors (Plant Biology & Ecology)	77	5				
ENGR-213	Strength of Materials	44	4				
PH-213	General Physics with Calculus	70	5				
--	Western Culture elective		4				
Western Culture Elective							
<b>ART-204, 205, 206;</b> <b>ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255;</b> <b>GEO-208;</b> <b>HST-101, 102, 103, 201, 202, 203;</b> <b>PHL-102;</b> <b>R-204;</b>							
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							
Cultural Diversity Elective							
<b>ANT-231, 232;</b> <b>ENG-213, 252;</b> <b>R-101, 102, 103, 210;</b>							

<b>Literature and the Arts Elective</b>			
ART-101, 102, 103, 204, 205, 206; DMC-194; ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205, 213, 241, 250, 251, 252, 253, 254, 255, 260, 270; MUS-105, 205, 206;		ART-101, <del>102, 103</del> , 204, 205, 206; DMC-194; ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205, 213, 241, 250, 251, 252, 253, 254, 255, 260, 270; MUS-105, 205, 206;	
<b>Difference, Power, and Discrimination Elective</b>			
HST-201, 202, 203; SOC-225;			
<b>Physical Education Elective</b>			
HPE-295;			
<b>TOTAL CURRENT CREDITS:</b>		102-103	<b>TOTAL PROPOSED CREDITS:</b>
<b>College Contact</b>		<b>Telephone No.</b>	
<b>E-Mail Address</b>		<b>Fax No.</b>	
<b>Chief Academic Officer or CTE Dean Signature</b>			<b>Date</b> 1/27/20





## 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>	
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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	Current 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 – Electrical Engineering				Associate of Applied Science Area of Emphasis	102
Partnering Institution Name Oregon State University					


Last amendment approved on 01.18.19

TYPE OF PROGRAM AMENDMENT <small>(Check ALL That Apply)</small>		
<input type="checkbox"/> New Agreement	<input type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
		<i>Proposed Total Credits:</i>
<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.]

<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
<b>Program Requirements – First Year</b>							
<b>Fall Term</b>							
CS-161	Computer Science I	44	4				
ENGR-111	Introduction to Engineering	33	3				
MTH-251	Calculus I	55	5				
WR-121	English Composition	44	4				
<b>Winter Term</b>							
CH-221	General Chemistry	77	5				
CS-162	Computer Science II	44	4				
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
<b>Spring Term</b>							
CS-260	Data Structures	44	4				
MTH-253	Calculus III	55	5				
WR-227	Technical Report Writing	44	4				
--	Social Processes elective		4				
<b>Summer Term</b>							
COMM-111	Public Speaking	44	4				
MTH-256	Differential Equations	44	4				
<b>Program Requirements – Second Year</b>							
<b>Fall Term</b>							
ENGR-221	Electrical Circuit Analysis I	33	4				
MTH-254	Vector Calculus	55	5				
PH-211	General Physics with Calculus	70	5				
<b>Winter Term</b>							
ENGR-171	Digital Logic	66	4				
ENGR-222	Electrical Circuit Analysis II	66	4				
MTH-231	Elements of Discrete Mathematics	44	4				
PH-212	General Physics with Calculus	70	5				
<b>Spring Term</b>							
ENGR-223	Electrical Circuit Analysis III	66	4				
PH-213	General Physics with Calculus	70	5				
--	Western Culture elective		4				
<b>Social Processes Elective</b>							
<b>ANT-103;</b> <b>EC-201, 202;</b> <b>HST-101, 102, 103;</b> <b>PS-201, 204, 205, 225;</b> <b>PSY-110, 200, 205, 219, 231;</b> <b>SOC-204, 205, 206;</b>							
<b>Western Culture Elective</b>							
<b>ART-204, 205, 206;</b> <b>ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255;</b> <b>GEO-208;</b> <b>HST-101, 102, 103, 132, 201, 202, 203;</b> <b>PHL-102;</b> <b>R-204;</b>							
<b>Optional:</b> 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-231, 232; ENG-213, 252; R-101, 102, 103, 210;		
<b>Literature and the Arts Elective</b>		
ART-101, 102, 103, 204, 205, 206; DMC-194; ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205, 213, 250, 251, 252, 253, 254, 255, 260; MUS-105, 205, 206;	ART-101, 102, 103, 204, 205, 206; DMC-194; ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205, 213, 250, 251, 252, 253, 254, 255, 260; MUS-105, 205, 206;	
<b>Difference, Power, and Discrimination Elective</b>		
HST-201, 202, 203; SOC-225;		
<b>Biological Science Elective</b>		
BI-101, 102, 103, 175, 176, 177, 204, 211, 212, 213, 234; ESR-171, 172, 173; Z-201, 202, 203;		
<b>Physical Education Elective</b>		
HPE-295;		
<b>TOTAL CURRENT CREDITS:</b>	102	<b>TOTAL PROPOSED CREDITS:</b>
<b>College Contact</b>		<b>Telephone No.</b>
<b>E-Mail Address</b>		<b>Fax No.</b>
<b>Chief Academic Officer or CTE Dean Signature</b>		<b>Date</b> 1/27/20



## 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>	
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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	Current 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 – Electrical/Computer				Associate of Applied Science Area of Emphasis	101-106
Partnering Institution Name Portland State University					

Last amendment approved on 01.18.19

TYPE OF PROGRAM AMENDMENT <small>(Check ALL That Apply)</small>		
<input type="checkbox"/> New Agreement	<input checked="" type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
		<i>Proposed Total Credits:</i>
<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 19-20

[List entire curriculum as last approved]

### PROPOSED CURRICULUM 20-21

[List only course(s) to be amended]

Course	Title	Hours	Credits	Course	Title	Hours	Credits
<b>Program Requirements – First Year</b>							
<b>Fall Term</b>							
CH-221	General Chemistry	77	5				
CS-161	Computer Science I	44	4				
ENGR-111	Introduction to Engineering	33	3				
MTH-251	Calculus I	55	5				
<b>Winter Term</b>							
CS-162	Computer Science II	44	4				
ENGR-112	Engineering Programming	33	3				
ENGR-171	Digital Logic	66	4				
MTH-252	Calculus II	55	5				
<b>Spring Term</b>							
COMM-111	Public Speaking	44	4				
ENGR-271	Digital Systems	66	4				
MTH-261	Linear Algebra	44	4				
WR-121	English Composition	44	4				
<b>Summer Term</b>							
WR-122 Or WR-227	English Composition or Technical Report Writing	44	4				
<b>Program Requirements – Second Year</b>							
<b>Fall Term</b>							
ENGR-221	Electrical Circuit Analysis I	33	4				
MTH-254*	Vector Calculus	55	5				
PH-211	General Physics with Calculus	70	5				
--	Arts & Letters elective		4				
<b>Winter Term</b>							
ENGR-222	Electrical Circuit Analysis II	66	4				
MTH-256	Differential Equations	44	4				
PH-212	General Physics with Calculus	70	5				
--	Social Science elective		4				
<b>Spring Term</b>							
ENGR-223	Electrical Circuit Analysis III	66	4				
MTH-253	Calculus III	55	5				
PH-213	General Physics with Calculus	70	5				
--	Arts & Letters or Social Science elective		4				

#### Catalog Notes

\*Electrical Track only

#### Arts & Letters or Social Science Electives

##### Arts & Letters

All courses in **ASL, COMM, ENG, FR, GER, HUM, PHL, SPN, WR**. Note that native speakers should only take advanced (300 level or above) world language courses. Non-performance based courses in art, journalism, music, and theater also meet this requirement.

The accepted courses at CCC are:

**ART**-101, 102, 103, 205, 206;

**J**-211;

**MUS**-105, 141, 205, 206, 230;

**TA**-101, 102;

##### Social Science

All courses in **ASL, COMM, ENG, FR, GER, HUM, PHL, SPN, WR**. Note that native speakers should only take advanced (300 level or above) world language courses. Non-performance based courses in art, journalism, music, and theater also meet this requirement.


The accepted courses at CCC are:

**ART**-101, ~~102, 103~~, 205, 206;

**J**-211;

**MUS**-105, 141, 205, 206, 230;

**TA**-101, 102;

All courses in ANT, EC, GEO, HST, PS, PSY, SOC, SSC, and WS.			
TOTAL <i>CURRENT</i> CREDITS:	101-106	TOTAL <i>PROPOSED</i> CREDITS:	
College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer <i>or</i> CTE Dean Signature		Date	1/27/20



## 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>	
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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	Current Credits
	<u>6-digit CIP</u>	<u>7<sup>th</sup> digit</u>	<u>8<sup>th</sup> digit</u>		
<b>AS Area of Emphasis Title: Engineering – Energy Systems Engineering</b>				<b>Associate of Applied Science Area of Emphasis</b>	<b>96-98</b>
<b>Partnering Institution Name Oregon State University</b>					

Last amendment approved on 05.17.19


TYPE OF PROGRAM AMENDMENT <small>(Check ALL That Apply)</small>		
<input type="checkbox"/> New Agreement	<input checked="" type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
		<i>Proposed Total Credits:</i>
<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.]

<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
<b>Program Requirements – First Year</b>							
<b>Fall Term</b>							
CH-221	General Chemistry	77	5				
ENGR-111	Introduction to Engineering	33	3				
MTH-251	Calculus I	55	5				
WR-121	English Composition	44	4				
<b>Winter Term</b>							
CH-222	General Chemistry	77	5				
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
<b>Spring Term</b>							
COMM-111	Public Speaking	44	4				
EC-201	Principles of Economics: MICRO	44	4				
MTH-254	Vector Calculus	55	5				
WR-227	Technical Report Writing	44	4				
<b>Summer Term</b>							
MTH-256	Differential Equations	44	4				
<b>Program Requirements – Second Year</b>							
<b>Fall Term</b>							
BA-211	Financial Accounting I	44	4				
ENGR-211	Statics	44	4				
ENGR-221	Electrical Circuit Analysis I	33	4				
PH-211	General Physics with Calculus	70	5				
<b>Winter Term</b>							
ENGR-212	Dynamics	44	4				
ENGR-222	Electrical Circuit Analysis II	66	4				
PH-212	General Physics with Calculus	70	5				
<b>Spring Term</b>							
PH-213	General Physics with Calculus	70	5				
--	Engineering elective		3-4				
--	Literature and the Arts Elective		3-4				
--	Western Culture elective		4				
<b>Engineering Elective</b>							
ENGR-115, 213, 223;							
<b>Western Culture Elective</b>							
ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-208; HST-101, 102, 103, 132, 201, 202, 203; PHL-102; R-204;							
<b>Literature and the Arts Elective</b>							
ART-101, 102, 103, 204, 205, 206; DMC-194; ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205, 213, 241, 250, 251, 252, 253, 254, 255, 260, 270; MUS-105, 205, 206;				ART-101, <del>102, 103</del> , 204, 205, 206; DMC-194; ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205, 213, 241, 250, 251, 252, 253, 254, 255, 260, 270; MUS-105, 205, 206;			
<b>Optional:</b> 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-231, 232; ENG-213, 252; R-101, 102, 103, 210;		
<b>Difference, Power, and Discrimination Elective</b>		
HST-201, 202, 203; SOC-225;		
<b>Biological Science Elective</b>		
BI-101, 102, 103, 175, 176, 177, 204, 211, 212, 213, 234; ESR-171, 172, 173; Z-201, 202, 203;		
<b>Physical Education Elective</b>		
HPE-295;		
<b>TOTAL CURRENT CREDITS:</b>	96-98	<b>TOTAL PROPOSED CREDITS:</b>
<b>College Contact</b>	Eric Lee	<b>Telephone No.</b> X6163
<b>E-Mail Address</b>		<b>Fax No.</b>
<b>Chief Academic Officer or CTE Dean Signature</b>		<b>Date</b> 1/27/20



## 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>	
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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	Current 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 – Environmental Engineering				Associate of Applied Science Area of Emphasis	110
Partnering Institution Name Oregon State University					


Last amendment approved on 01.18.19

TYPE OF PROGRAM AMENDMENT <small>(Check ALL That Apply)</small>		
<input type="checkbox"/> New Agreement	<input checked="" type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
		<i>Proposed Total Credits:</i>
<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.]

<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
<b>Program Requirements – First Year</b>							
<b>Fall Term</b>							
ENGR-111	Introduction to Engineering	33	3				
MTH-251	Calculus I	55	5				
WR-121	English Composition	44	4				
--	Social Processes elective		4				
<b>Winter Term</b>							
CH-221	General Chemistry	77	5				
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
WR-227	Technical Report Writing	44	4				
<b>Spring Term</b>							
CH-222	General Chemistry	77	5				
ENGR-115	Engineering Graphics	33	3				
MTH-254	Vector Calculus	55	5				
--	Western Culture elective		4				
<b>Summer Term</b>							
CH-223	General Chemistry	77	5				
COMM-111	Public Speaking	44	4				
MTH-256	Differential Equations	44	4				
<b>Program Requirements – Second Year</b>							
<b>Fall Term</b>							
CH-241	Organic Chemistry I	77	5				
ENGR-211	Statics	44	4				
PH-211	General Physics with Calculus	70	5				
<b>Winter Term</b>							
CH-242	Organic Chemistry II	77	5				
ENGR-212	Dynamics	44	4				
PH-212	General Physics with Calculus	70	5				
<b>Spring Term</b>							
CH-243	Organic Chemistry III	77	5				
ENGR-213	Strength of Materials	44	4				
MTH-253	Calculus III	55	5				
PH-213	General Physics with Calculus	70	5				
<b>Social Processes Elective</b>							
ANT-103; EC-201, 202; HST-101, 102, 103; PS-201, 204, 205, 225; PSY-110, 200, 205, 219, 231; SOC-204, 205, 206;							
<b>Western Culture Elective</b>							
ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-208; HST-101, 102, 103, 132, 201, 202, 203; PHL-102; R-204;							
<b>Optional:</b> 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-231, 232; ENG-213, 252; R-101, 102, 103, 210;		
<b>Literature and the Arts Elective</b>		
ART-101, 102, 103, 204, 205, 206; DMC-194; ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205, 213, 250, 251, 252, 253, 254, 255, 260; MUS-105, 205, 206;	ART-101, 102, 103, 204, 205, 206; DMC-194; ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205, 213, 250, 251, 252, 253, 254, 255, 260; MUS-105, 205, 206;	
<b>Difference, Power, and Discrimination Elective</b>		
HST-201, 202, 203; SOC-225;		
<b>Biological Science Elective</b>		
BI-101, 102, 103, 175, 176, 177, 204, 211, 212, 213, 234; ESR-171, 172, 173; Z-201, 202, 203;		
<b>Physical Education Elective</b>		
HPE-295;		
<b>TOTAL CURRENT CREDITS:</b>	110	<b>TOTAL PROPOSED CREDITS:</b>
<b>College Contact</b>		<b>Telephone No.</b>
<b>E-Mail Address</b>		<b>Fax No.</b>
<b>Chief Academic Officer or CTE Dean Signature</b>		<b>Date</b> 1/27/20



## 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>	
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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	Current Credits
	<u>6-digit CIP</u>	<u>7<sup>th</sup> digit</u>	<u>8<sup>th</sup> digit</u>		
<b>AS Area of Emphasis Title: Engineering – Industrial/Manufacturing</b>				<b>Associate of Applied Science Area of Emphasis</b>	<b>92-93</b>
<b>Partnering Institution Name Oregon State University</b>					


Last amendment approved on 05.17.19

TYPE OF PROGRAM AMENDMENT <small>(Check ALL That Apply)</small>		
<input type="checkbox"/> New Agreement	<input type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
		<i>Proposed Total Credits:</i>
<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.]

<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
<b>Program Requirements – First Year</b>							
<b>Fall Term</b>							
COMM-111	Public Speaking	44	4				
ENGR-111	Introduction to Engineering	33	3				
MTH-251	Calculus I	55	5				
WR-121	English Composition	44	4				
<b>Winter Term</b>							
CH-221	General Chemistry	77	5				
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
<b>Spring Term</b>							
CH-222	General Chemistry	77	5				
ENGR-115	Engineering Graphics	33	3				
MTH-254	Vector Calculus	55	5				
WR-227	Technical Report Writing	44	4				
<b>Summer Term</b>							
MTH-256	Differential Equations	44	4				
--	Social Processes elective		4				
<b>Program Requirements – Second Year</b>							
<b>Fall Term</b>							
ENGR-211	Statics	44	4				
PH-211	General Physics with Calculus	70	5				
--	Western Culture elective		4				
<b>Winter Term</b>							
ENGR-212	Dynamics	44	4				
PH-212	General Physics with Calculus	70	5				
--	Literature and the Arts Elective		3-4				
<b>Spring Term</b>							
ENGR-201	Electrical Fundamentals	66	4				
ENGR-213	Strength of Materials	44	4				
PH-213	General Physics with Calculus	70	5				
<b>Social Processes Elective</b>							
<b>ANT-103;</b> <b>EC-201, 202;</b> <b>HST-101, 102, 103;</b> <b>PS-201, 204, 205, 225;</b> <b>PSY-110, 200, 205, 219, 231;</b> <b>SOC-204, 205, 206;</b>							
<b>Western Culture Elective</b>							
<b>ART-204, 205, 206;</b> <b>ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255;</b> <b>GEO-208;</b> <b>HST-101, 102, 103, 132, 201, 202, 203;</b> <b>PHL-102;</b> <b>R-204;</b>							
<b>Literature and the Arts Elective</b>							
<b>ART-101, 102, 103, 204, 205, 206;</b> <b>DMC-194;</b> <b>ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205, 213, 241, 250, 251, 252, 253, 254, 255, 260, 270;</b> <b>MUS-105, 205, 206;</b>				<b>ART-101, <del>102, 103</del>, 204, 205, 206;</b> <b>DMC-194;</b> <b>ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205, 213, 241, 250, 251, 252, 253, 254, 255, 260, 270;</b> <b>MUS-105, 205, 206;</b>			

<b>Optional:</b> 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-231, 232; ENG-213, 252; R-101, 102, 103, 210;			
<b>Difference, Power, and Discrimination Elective</b>			
HST-201, 202, 203; SOC-225;			
<b>Biological Science Elective</b>			
BI-101, 102, 103, 175, 176, 177, 204, 211, 212, 213, 234; ESR-171, 172, 173; Z-201, 202, 203;			
<b>Physical Education Elective</b>			
HPE-295;			
<b>TOTAL CURRENT CREDITS:</b>		92-93	
<b>TOTAL PROPOSED CREDITS:</b>			
<b>College Contact</b>	Eric Lee	<b>Telephone No.</b>	X6163
<b>E-Mail Address</b>		<b>Fax No.</b>	
<b>Chief Academic Officer or CTE Dean Signature</b>		<b>Date</b>	1/27/20



## 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>	
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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	Current 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 – Mechanical Engineering				Associate of Applied Science Area of Emphasis	96-97
Partnering Institution Name Oregon State University					

Last amendment approved on 05.17.19


TYPE OF PROGRAM AMENDMENT <small>(Check ALL That Apply)</small>		
<input type="checkbox"/> New Agreement	<input type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
		<i>Proposed Total Credits:</i>
<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.]

<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
<b>Program Requirements – First Year</b>							
<b>Fall Term</b>							
COMM-111	Public Speaking	44	4				
ENGR-111	Introduction to Engineering	33	3				
MTH-251	Calculus I	55	5				
WR-121	English Composition	44	4				
<b>Winter Term</b>							
CH-221	General Chemistry	77	5				
EC-201 Or EC-202	Principles of Economics: MICRO or Principles of Economics: MACRO	44	4				
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
<b>Spring Term</b>							
CH-222	General Chemistry	77	5				
ENGR-115	Engineering Graphics	33	3				
MTH-254	Vector Calculus	55	5				
WR-227	Technical Report Writing	44	4				
<b>Summer Term</b>							
MTH-256	Differential Equations	44	4				
<b>Program Requirements – Second Year</b>							
<b>Fall Term</b>							
ENGR-211	Statics	44	4				
ENGR-221	Electrical Circuit Analysis I	33	4				
PH-211	General Physics with Calculus	70	5				
--	Western Culture elective		4				
<b>Winter Term</b>							
ENGR-212	Dynamics	44	4				
ENGR-222	Electrical Circuit Analysis II	66	4				
PH-212	General Physics with Calculus	70	5				
<b>Spring Term</b>							
ENGR-213	Strength of Materials	44	4				
PH-213	General Physics with Calculus	70	5				
--	Literature and the Arts Elective		3-4				
<b>Western Culture Elective</b>							
ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-208; HST-101, 102, 103, 132, 201, 202, 203; PHL-102; R-204;							
<b>Literature and the Arts Elective</b>							
ART-101, 102, 103, 204, 205, 206; DMC-194; ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205, 213, 241, 250, 251, 252, 253, 254, 255, 260, 270; MUS-105, 205, 206;				ART-101, <del>102, 103</del> , 204, 205, 206; DMC-194; ENG-104, 105, 106, 107, 108, 109, 194, 195, 201, 202, 204, 205, 213, 241, 250, 251, 252, 253, 254, 255, 260, 270; MUS-105, 205, 206;			
<b>Optional:</b> 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-231, 232; ENG-213, 252; R-101, 102, 103, 210;		
<b>Difference, Power, and Discrimination Elective</b>		
HST-201, 202, 203; SOC-225;		
<b>Biological Science Elective</b>		
BI-101, 102, 103, 175, 176, 177, 204, 211, 212, 213, 234; ESR-171, 172, 173; Z-201, 202, 203;		
<b>Physical Education Elective</b>		
HPE-295;		
<b>TOTAL CURRENT CREDITS:</b>	96-97	<b>TOTAL PROPOSED CREDITS:</b>
<b>College Contact</b>	Eric Lee	<b>Telephone No.</b> X6163
<b>E-Mail Address</b>		<b>Fax No.</b>
<b>Chief Academic Officer or CTE Dean Signature</b>		<b>Date</b> 1/27/20



## 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>
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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

<i>APPROVED</i> Program Title	<i>APPROVED</i> CIP Code (Include 7 <sup>th</sup> & 8 <sup>th</sup> digits used for OCCURS reporting.)			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7<sup>th</sup> digit</i>	<i>8<sup>th</sup> digit</i>		
<b>AS Area of Emphasis Title: Engineering - Mechanical</b>				<b>Associate of Applied Science Area of Emphasis</b>	<b>101</b>
<b>Partnering Institution Name Portland State University</b>					

Last amendment approved on 01.18.19 Catalog note added without approval during catalog edits

### TYPE OF PROGRAM AMENDMENT


(Check ALL That Apply)

<input type="checkbox"/> New Agreement	<input checked="" type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
		<i>Proposed Total Credits:</i>
<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 19-20 [List entire curriculum as last approved]								PROPOSED CURRICULUM 20-21 [List only course(s) to be amended]							
Course		Title		Hours		Credits		Course		Title		Hours		Credits	
<b>Program Requirements – First Year</b>															
<b>Fall Term</b>															
CH-221	General Chemistry		77	5											
ENGR-111	Introduction to Engineering		33	3											
MTH-251	Calculus I		55	5											
WR-121	English Composition		44	4											
<b>Winter Term</b>															
CH-222	General Chemistry		77	5											
ENGR-112	Engineering Programming		33	3											
ENGR-231	Properties of Materials		66	4											
MTH-252	Calculus II		55	5											
<b>Spring Term</b>															
COMM-111	Public Speaking		44	4											
ENGR-115	Engineering Graphics		33	3											
MTH-254	Vector Calculus		55	5											
WR-122 Or WR-227	English Composition or Technical Report Writing		44	4											
<b>Program Requirements – Second Year</b>															
<b>Fall Term</b>															
ENGR-211	Statics		44	4											
MTH-261	Linear Algebra		44	4											
PH-211	General Physics with Calculus		70	5											
--	Arts & Letters elective			4											
<b>Winter Term</b>															
ENGR-212	Dynamics		44	4											
MTH-256	Differential Equations		44	4											
PH-212	General Physics with Calculus		70	5											
--	Social Science elective			4											
<b>Spring Term</b>															
ENGR-201	Electrical Fundamentals		66	4											
ENGR-213	Strength of Materials		44	4											
PH-213	General Physics with Calculus		70	5											
--	Arts & Letters or Social Science elective			4											
<b>Arts &amp; Letters or Social Science Electives</b>															
<b>Arts &amp; Letters</b>															
<p>All courses in <b>ASL, COMM, ENG, FR, GER, HUM, PHL, SPN, WR</b>. Note that native speakers should only take advanced (300 level or above) world language courses. Non-performance based courses in art, journalism, music, and theater also meet this requirement.</p> <p>The accepted courses at CCC are:  <b>ART</b>-101, 102, 103, 205, 206;  <b>J</b>-211;  <b>MUS</b>-105, 141, 205, 206, 230;  <b>TA</b>-101, 102;</p>								<p>All courses in <b>ASL, COMM, ENG, FR, GER, HUM, PHL, SPN, WR</b>. Note that native speakers should only take advanced (300 level or above) world language courses. Non-performance based courses in art, journalism, music, and theater also meet this requirement.</p> <p>The accepted courses at CCC are:  <b>ART</b>-101, <b>102, 103</b>, 205, 206;  <b>J</b>-211;  <b>MUS</b>-105, 141, 205, 206, 230;  <b>TA</b>-101, 102;</p>							
<b>Social Science</b>															
<p>All courses in <b>ANT, EC, GEO, HST, PS, PSY, SOC, SSC</b>, and <b>WS</b>.</p>															
<b>Catalog Notes:</b>															
Optional: While not required for the AS degree, mechanical															

engineering students may complete additional coursework at CCC that will meet requirements for the Bachelor of Science degree at Portland State University. Additional courses include (1) One additional Arts & Letters or Social Science elective and (2) Approved Science Elective: Any minimum 4 credit course from Biology, Chemistry, Environmental Science, Geology, or Physics.			
<b>TOTAL CURRENT CREDITS:</b>	101	<b>TOTAL PROPOSED CREDITS:</b>	
<b>College Contact</b>		<b>Telephone No.</b>	
<b>E-Mail Address</b>		<b>Fax No.</b>	
<b>Chief Academic Officer or CTE Dean Signature</b>			<b>Date</b> 1/27/20



## 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>	
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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 type="checkbox"/> Industrial & Engineering Systems

PROGRAM INFORMATION					
<i>APPROVED</i> Program Title	<i>APPROVED</i> CIP Code <small>(Include 7<sup>th</sup> &amp; 8<sup>th</sup> digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7<sup>th</sup> digit</i>	<i>8<sup>th</sup> digit</i>		
AS Area of Emphasis Title: Biology				Associate of Applied Science Area of Emphasis	92
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 type="checkbox"/> Revision in Program Credits
		<i>Proposed Total Credits:</i>
<input type="checkbox"/> <b>SUSPENSION</b> of Program	<i>Reason for Suspension:</i>	
<b>Suspension Effective Date:</b>		

## CURRICULUM AMENDMENT

<b>CURRENT CURRICULUM 19-20</b> <small>[List entire curriculum as last approved]</small>				<b>PROPOSED CURRICULUM 20-21</b> <small>[List only course(s) to be amended]</small>			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Program Requirements – First Year							
Fall Term							
BI-211	General Biology for Science Majors (Cellular Biology)	77	5				
CH-221	General Chemistry	77	5				
PE-185	Physical Education	33	1				
WR-121	English Composition	44	4				
Winter Term							
BI-212	General Biology for Science Majors (Animal Biology)	77	5				
CH-222	General Chemistry	77	5				
MTH-251	Calculus I	55	5				
Spring Term							
BI-213	General Biology for Science Majors (Plant Biology & Ecology)	77	5				
COMM-111 or COMM-112 or COMM-218	Public Speaking or Persuasive Speaking or Interpersonal Communication	44	4				
CH-223	General Chemistry	77	5				
Program Requirements – Second Year							
Fall Term							
CH-241*	Organic Chemistry I	77	5				
PH-201 Or PH-211	General Physics or General Physics with Calculus	70	5				
WR-122 Or WR-227	English Composition or Technical Report Writing	44	4				
--	Core electives		3				
Winter Term							
CH-242*	Organic Chemistry II	77	5				
MTH-252	Calculus II	55	5				
PH-202 or PH-212	General Physics or General Physics with Calculus	70	5				
Spring Term							
CH-243*	Organic Chemistry III	77	5				
HPE-295	Health & Fitness for Life	60	3				
PH-203 or PH-213	General Physics or General Physics with Calculus	70	5				
--	Core electives		3				
*Organic Chemistry – satisfies degree requirement but does not transfer at 300 level credits unless students passes the ACS organic exam. OSU highly recommends taking the ACS organic exam. Transfers as a combination of CH-331, 332 & 337.							
Core Electives							
ANT-101, 102, 103, 231, 232; ART-101, 102, 103, 204, 205, 206;				ANT-101, 102, 103, 231, 232; ART-101, 102, 103, 204, 205, 206;			

<b>ASC-175, 176, 177;</b> <b>BI-101, 102, 103, 175, 176, 177, 204, 211, 212, 213, 234;</b> <b>CH-104, 105, 114, 221, 222, 223;</b> <b>DMC-194;</b> <b>EC-201, 202;</b> <b>ENG-104, 105, 106, 107, 108, 109, 201, 202, 204, 205, 213, 240, 241, 250, 251, 252, 253, 254, 255;</b> <b>ESR-171, 172, 173;</b> <b>G-101, 102, 103, 201, 202, 203;</b> <b>GEO-100, 110, 130, 208;</b> <b>GS-104, 105, 106, 107;</b> <b>HST-101, 102, 103, 201, 202, 203;</b> <b>MUS-206;</b> <b>PH- 121, 122, 123, 201, 202, 203, 211, 212, 213;</b> <b>PHL-102;</b> <b>PS-200, 201, 203, 204, 205, 225;</b> <b>PSY-110, 200, 205, 219, 231;</b> <b>R-101, 102, 103, 210, 204;</b> <b>SOC-204, 205, 206, 225;</b> <b>Z-201, 202, 203</b>		<b>ASC-175, 176, 177;</b> <b>BI-101, 102, 103, 175, 176, 177, 204, 211, 212, 213, 234;</b> <b>CH-104, 105, 114, 221, 222, 223;</b> <b>DMC-194;</b> <b>EC-201, 202;</b> <b>ENG-104, 105, 106, 107, 108, 109, 201, 202, 204, 205, 213, 240, 241, 250, 251, 252, 253, 254, 255;</b> <b>ESR-171, 172, 173;</b> <b>G-101, 102, 103, 201, 202, 203;</b> <b>GEO-100, 110, 130, 208;</b> <b>GS-104, 105, 106, 107;</b> <b>HST-101, 102, 103, 201, 202, 203;</b> <b>MUS-206;</b> <b>PH- 121, 122, 123, 201, 202, 203, 211, 212, 213;</b> <b>PHL-102;</b> <b>PS-200, 201, 203, 204, 205, 225;</b> <b>PSY-110, 200, 205, 219, 231;</b> <b>R-101, 102, 103, 210, 204;</b> <b>SOC-204, 205, 206, 225;</b> <b>Z-201, 202, 203</b>			
<b>TOTAL CURRENT CREDITS:</b>		92	<b>TOTAL PROPOSED CREDITS:</b>		
<b>College Contact</b>			<b>Telephone No.</b>		
<b>E-Mail Address</b>			<b>Fax No.</b>		
<b>Dean Signature</b>			<b>Date</b>	1/23/20	





## 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>	01/29/20
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CAREER LEARNING AREA	
<input type="checkbox"/> Ag, Food & Natural Resource Systems	<input type="checkbox"/> Health Services
<input checked="" type="checkbox"/> Arts, Information & Communications	<input type="checkbox"/> Human Resources
<input type="checkbox"/> Business & Management	<input 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	Current 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: English				Associate of Applied Science Area of Emphasis	94-97
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 type="checkbox"/> Revision in Program Credits
		<i>Proposed Total Credits:</i> <b>94-98</b>
<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.]

<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
<b>Program Requirements – First Year</b>							
<b>Fall Term</b>							
ASL-101 or FR-101 or SPN-101	American Sign Language I or First-Year French I or First-Year Spanish I	44	4				
HPE-295	Health & Fitness for Life	60	3				
WR-121	English Composition	44	4				
--	Biological Science elective		4				
<b>Winter Term</b>							
ASL-102 or FR-102 or SPN-102	American Sign Language or First-Year French II or First-Year Spanish II	44	4				
MTH-105	Math in Society	44	4	MTH-105 or MTH-111 or MTH-112 or MTH-251 or MTH-252	Math in Society or College Algebra or Trigonometry and Pre-Calculus or Calculus I or Calculus II	44-55	4-5
WR-122	English Composition	44	4				
--	200-level English elective		4				
<b>Spring Term</b>							
ART-204 or ART-205 or ART-206 or MUS-105	History of Art/Ancient Through Medieval or History of Art/Romanesque Through Baroque or History of Art/Enlightenment Through Contemporary Or Music Appreciation	33-44	3-4	ART-206 or MUS-105	History of Art/Enlightenment Through Contemporary Or Music Appreciation	33-44	3-4
ASL-103 or FR-103 or SPN-103	American Sign Language or First-Year French III or First-Year Spanish III	44	4				
--	200-level English elective		4				
--	Physical Science elective		4-5				
<b>Program Requirements – Second Year</b>							
<b>Fall Term</b>							
ASL-201 or FR-201 or SPN-201	Second-Year American Sign Language I or Second-Year French I or Second-Year Spanish I	44	4				
-- or --	200-Level English sequence 200-Level English elective		4				
--	Biological Science		4-5				

or --	Physical Science						
--	Speech elective		4				
<b>Winter Term</b>							
ASL-202 or FR-202 or SPN-202	Second-Year American Sign Language II or Second-Year French II or Second-Year Spanish II	44	4				
--	200-Level English sequence		4				
--	Cultural Diversity elective		4				
--	Social Processes/Institutions elective		4				
<b>Spring Term</b>							
ASL-203 or FR-203 or SPN-203	Second-Year American Sign Language III or Second-Year French III or Second-Year Spanish III	44	4				
HST-201 or HST-202 or HST-203 or SOC-225	History of the United States or History of the United States or History of the United States or Social Problems	44	4	HST-203 or SOC-225	History of the United States or Social Problems	44	4
-- or --	200-Level sequence  200-Level English elective		4				
--	Western Culture electives		4				
Note: Prerequisites for second year world languages: Either two years of high school world languages, OR, one year of college 100-level courses ASL, FR, GER-OR SPN-101, 102, 103.				Note: Prerequisites for second year world languages: Either two years of high school world languages, OR, one year of college 100-level courses ASL, FR, <del>GER</del> OR SPN-101, 102, 103.			
<b>Biological Science Electives</b>							
BI-102, 103, 204, 211, 212, 213, 234							
<b>200-Level English Electives</b>							
ENG-201, 202, 204, 205, 253, 254							
<b>Physical Science Electives</b>							
G-101, 102, 103, 201, 202, 203; GS-107; PH-121, 122, 123, 201, 202, 203, 211, 212, 213; CH-221, 222, 223;							
<b>English Sequence Options</b>							
ENG-204 and ENG-205 or ENG-253 and ENG-254							
<b>Speech Electives</b>							
COMM-111, 112, 218; WR-241, 242, 243;							
<b>Cultural Diversity Elective</b>							
R-101, 102, 103, 210;							
<b>Social Processes/Institutions Elective</b>							
ANT-103; EC-201, 202; HST-101, 102, 103; PS-201, 204, 205; PSY-200, 205; SOC-204, 205;							
<b>Western Culture Electives</b>							

ART-204, 205, 206; GEO-208; HST-101, 102, 103, 201, 202, 203; PHL-102; PS-203;			
<b>TOTAL CURRENT CREDITS:</b>	94-97	<b>TOTAL PROPOSED CREDITS:</b>	94-98
<b>College Contact</b>	Carol Burnell	<b>Telephone No.</b>	503-594-3256
<b>E-Mail Address</b>	carolb@clackamas.edu	<b>Fax No.</b>	
<b>Chief Academic Officer <i>or</i> CTE Dean Signature</b>	Tara Sprehe via email	<b>Date</b>	<b>1/31/20</b>



## 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>	01/29/20
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CAREER LEARNING AREA	
<input type="checkbox"/> Ag, Food & Natural Resource Systems	<input type="checkbox"/> Health Services
<input checked="" type="checkbox"/> Arts, Information & Communications	<input type="checkbox"/> Human Resources
<input type="checkbox"/> Business & Management	<input type="checkbox"/> Industrial & Engineering Systems

PROGRAM INFORMATION					
<i>APPROVED</i> Program Title	<i>APPROVED</i> CIP Code <small>(Include 7<sup>th</sup> &amp; 8<sup>th</sup> digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7<sup>th</sup> digit</i>	<i>8<sup>th</sup> digit</i>		
AS Area of Emphasis Title: English				Associate of Applied Science Area of Emphasis	95
Partnering Institution Name Portland 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>
<input type="checkbox"/> <b>SUSPENSION</b> of Program	<i>Reason for Suspension:</i>	
<b>Suspension Effective Date:</b>		

## CURRICULUM AMENDMENT

### CURRENT CURRICULUM 19-20

[List entire curriculum as last approved]

### PROPOSED CURRICULUM 20-21

[List only course(s) to be amended]

Course	Title	Hours	Credits	Course	Title	Hours	Credits
<b>Program Requirements – First Year</b>							
<b>Fall Term</b>							
ASL-101 or FR-101 or SPN-101	American Sign Language I or First-Year French I or First-Year Spanish I	44	4				
ENG-201 or ENG-204	Shakespeare or British Literature: Ancient to Enlightenment	44	4				
MTH-105	Math in Society	44	4	MTH-105 Or MTH-111 Or MTH-112 Or MTH-251 Or MTH-252	Math in Society or College Algebra or Trigonometry and Pre- Calculus or Calculus I or Calculus II	44-55	4-5
WR-121	English Composition	44	4				
<b>Winter Term</b>							
ASL-102 or FR-102 or SPN-102	American Sign Language or First-Year French II or First-Year Spanish II	44	4				
ENG-202 or ENG-205 or ENG-253	Shakespeare or British Literature: Romantic to Contemporary or American Literature: Pre- Columbian to Civil War	44	4				
WR-122	English Composition	44	4				
--	Social Science Elective		4				
<b>Spring Term</b>							
ASL-103 or FR-103 or SPN-103	American Sign Language or First-Year French III or First-Year Spanish III	44	4				
ENG-270	Introduction to Literary Criticism	44	4				
WR-222 or WR-140	English Composition or Introduction to Writing Creatively	44	4				
--	Science Elective		4				
<b>Program Requirements – Second Year</b>							
<b>Fall Term</b>							
ASL-201 or FR-201 or SPN-201	Second-Year American Sign Language I or Second-Year French I or Second-Year Spanish I	44	4				
WR-248	Bookmaking: Design and Layout	44	4				

WR-	200-Level Creative Writing Course		4				
--	Social Science Elective		4				
Winter Term							
ASL-202 or FR-202 or SPN-202	Second-Year American Sign Language II or Second-Year French II or Second-Year Spanish II	44	4				
WR-246	Editing & Publishing	44	4				
WR-265	Digital Storytelling	44	4				
WR-244 or WR-245 or WR-263	Advanced Fiction Writing or Advanced Poetry Writing or Advanced Screenwriting	44	4				
Spring Term							
ASL-203 or FR-203 or SPN-203	Second-Year American Sign Language III or Second-Year French III or Second-Year Spanish III	44	4				
HD-186	A Digital You - Building an e-Portfolio	33	3	REMOVE			
--	English Program elective		8				
				ENG-297	A.S. Degree Portfolio	11	1
Note: Prerequisites for second year world languages: Either two years of high school world languages, OR, one year of college 100-level courses ASL, FR, GER, or SPN-101, 102, 103				Note: Prerequisites for second year world languages: Either two years of high school world languages, OR, one year of college 100-level courses ASL, FR, <b>GER</b> , or SPN-101, 102, 103			
Social Science Elective							
<b>ANT-102;</b> <b>EC-201, 202;</b> <b>HST-101, 102, 103, 201, 202, 203;</b> <b>PS-200, 203, 204, 205;</b> <b>PSY-101, 205;</b> <b>SOC-204;</b> <b>WS-101;</b>							
Science Electives							
<b>BI-101, 102, 103, 112, 234;</b> <b>CH-104, 105, 106, 150, 221, 222, 223;</b> <b>ESR-171, 172, 173;</b> <b>G-201, 202, 203;</b> <b>PH-121, 122, 123, 201, 202, 203, 211, 212, 213;</b>							
English Program Electives							
4 credits from the following list if not used already in AS to satisfy the degree requirements: <b>ENG-104, 105, 106, 107, 108, 109, 116, 121, 130, 194, 195, 213, 214, 218, 225, 226, 230, 250, 251, 252, 255, 260, 261, 266, 295;</b> <b>WR-270;</b>				4 credits from the following list if not used already in AS to satisfy the degree requirements: <b>ENG-104, 105, 106, 107, 108, 109, 116, 121, 130, 194, 195, 213, 214, 218, 225, 226, 230, 250, 251, 252, 255, 260, 261, 266, 295;</b> <b>WR-270;</b>			
200-Level Creative Writing Electives							
4 credits from the following list if not used already in AS to satisfy the degree requirements: <b>WR-220, 240, 241, 243, 262;</b>				4 credits from the following list if not used already in AS to satisfy the degree requirements: <b>WR-220, 240, 241, 243, 262;</b>			
<b>TOTAL CURRENT CREDITS:</b>			95	<b>TOTAL PROPOSED CREDITS:</b>			93-94
<b>College Contact</b>		Carol Burnell			<b>Telephone No.</b>		503-594-3256
<b>E-Mail Address</b>		carolb@clackamas.edu			<b>Fax No.</b>		
<b>Chief Academic Officer or CTE Dean Signature</b>				Tara Sprehe via email		<b>Date</b> 1/31/20	



## 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>	01/29/20
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CAREER LEARNING AREA	
<input type="checkbox"/> Ag, Food & Natural Resource Systems	<input type="checkbox"/> Health Services
<input checked="" type="checkbox"/> Arts, Information & Communications	<input type="checkbox"/> Human Resources
<input type="checkbox"/> Business & Management	<input type="checkbox"/> Industrial & Engineering Systems

PROGRAM INFORMATION					
<i>APPROVED</i> Program Title	<i>APPROVED</i> CIP Code <small>(Include 7<sup>th</sup> &amp; 8<sup>th</sup> digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7<sup>th</sup> digit</i>	<i>8<sup>th</sup> digit</i>		
AS Area of Emphasis Title: English				Associate of Applied Science Area of Emphasis	91-98
Partnering Institution Name University of Oregon					

Track requirement changed to General Elective during Catalog edit without an amendment or approval

Last amendment approved on 04.05.19

TYPE OF PROGRAM AMENDMENT		
<small>(Check ALL That Apply)</small>		
<input type="checkbox"/> New Agreement	<input checked="" type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
		<i>Proposed Total Credits:</i>
<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.]

<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [List only course(s) to be amended]			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
<b>Program Requirements – First Year</b>							
<b>Fall Term</b>							
ASL-101 or FR-101 or SPN-101	American Sign Language I or First-Year French I or First-Year Spanish I	44	4				
MTH-105 Or higher	Math in Society Or higher (except MTH-205 and MTH-280)	44	4-5	MTH-105 Or MTH-111 Or MTH-112 Or MTH-251 Or MTH-252	Math in Society or College Algebra or Trigonometry and Pre-Calculus or Calculus I or Calculus II	44-55	4-5
WR-121	English Composition	44	4				
WR-140 Or --	Introduction to Writing Creatively Or Arts & Letters course		4				
<b>Winter Term</b>							
ASL-102 or FR-102 or SPN-102	American Sign Language or First-Year French II or First-Year Spanish II	44	4				
ESR-172 Or --	Environmental Science Or Science course		4-5				
PSY-110 Or --	Psychology: An Overview Or Social Science course		3-5				
WR-122	English Composition	44	4				
<b>Spring Term</b>							
ASL-103 or FR-103 or SPN-103	American Sign Language or First-Year French III or First-Year Spanish III	44	4				
ESR-173 Or --	Environmental Science Or Science course		4-5				
ENG-270 Or --	Introduction to Literary Criticism Or Arts & Letters course		4				
WR-222	English Composition	44	4				
<b>Program Requirements – Second Year</b>							
<b>Fall Term</b>							
ASL-201 or FR-201 or SPN-201	Second-Year American Sign Language I or Second-Year French I or Second-Year Spanish I	44	4				
ENG-204	British Literature: Ancient to Enlightenment	44	4				

ENG-	Program Elective	44	4				
--	General Electives		4				
<b>Winter Term</b>							
ASL-202 or FR-202 or SPN-202	Second-Year American Sign Language II or Second-Year French II or Second-Year Spanish II	44	4				
ENG-205 or ENG-253	British Literature: Romantic to Contemporary or American Literature: Pre-Columbian to Civil War	44	4				
ENG-	Program Elective	44	4				
--	General Elective	44	4				
<b>Spring Term</b>							
ASL-203 or FR-203 or SPN-203	Second-Year American Sign Language III or Second-Year French III or Second-Year Spanish III	44	4				
ENG-254	American Literature: 1865 to Present	44	4				
ENG-297	A.S. Degree Portfolio	11	1				
HST-103 Or --	History of Western Civilization Or Social Science Elective		3-5				
<b>Social Science Elective</b>							
<b>ANT-102, 103, 231, 232;</b> <b>EC-201, 202;</b> <b>GEO-110, 208;</b> <b>HST-101, 102, 103, 131, 132, 136, 137, 138, 201, 202, 203;</b> <b>PS-200, 201, 203, 204, 205, 225;</b> <b>PSY-101, 110, 205, 215, 219, 231;</b> <b>SSC-160, 233, 235, 240, 241, 242;</b> <b>SOC-204, 205, 206, 210, 225;</b> <b>WS-101;</b>				<b>ANT-102, 103, 231, 232;</b> <b>EC-201, 202;</b> <b>GEO-110, 208;</b> <b>HST-101, 102, 103, 131, 132, 136, 137, 138, 201, 202, 203;</b> <b>PS-200, 201, 203, 204, 205, <del>225</del>;</b> <b>PSY-101, 110, 205, 215, 219, 231;</b> <b>SSC-160, <del>233</del>, 235, 240, <del>241, 242</del>;</b> <b>SOC-204, 205, 206, 210, 225;</b> <b>WS-101;</b>			
<b>Other Science Electives</b>							
<b>ANT-101;</b> <b>BI-101, 102, 103, 112, 160L, 165CL, 204, 211, 212, 213, 231, 232, 233, 234;</b> <b>CH-104, 105, 106, 112, 150, 221, 222, 223, 241, 242, 243;</b> <b>ESR-171, 172, 173;</b> <b>G-101, 102, 103, 145, 148, 201, 202, 203;</b> <b>PH-121, 122, 123, 201, 202, 203, 211, 212, 213;</b> <b>PSY-200;</b> <b>Z-201, 202, 203;</b>							
<b>English Program Electives</b>							
<b>ENG-104*, 105*, 106*, 107, 108, 109, 116, 121, 130, 194, 195, 201, 202, 213, 218, 225, 226, 230, 240, 241, 250, 251, 252, 255, 260, 261, 266, 295;</b> *Only one selection from ENG-104, -105, and -106 will count for credit at UO.							
<b>General Elective</b>							
Any other minimum 4-credit transferable course except prefix PE or HPE that is not already part of the degree requirements							
<b>Arts &amp; Letters Options</b>							
Minimum 4 credits per term <b>WR-220, 240, 241, 242, 243, 244, 245, 246, 262, 263, 265;</b> Or other Arts & Letters courses as listed in the CCC Catalog				Minimum 4 credits per term <b>WR-<del>220</del>, 240, 241, 242, 243, 244, 245, 246, 262, 263, 265;</b> Or other Arts & Letters courses as listed in the CCC Catalog			
<b>TOTAL CURRENT CREDITS:</b>			91-98	<b>TOTAL PROPOSED CREDITS:</b>			

<b>College Contact</b>	Carol Burnell	<b>Telephone No.</b>	
<b>E-Mail Address</b>		<b>Fax No.</b>	
<b>Chief Academic Officer <i>or</i> CTE Dean Signature</b>	Tara Sprehe via email	<b>Date</b>	<b>1/31/20</b>



## COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

(For changes to State Approved Associate of Applied Science degree, AAS option and Certificate of Completion programs)

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

Current instructions, forms, handouts and other useful resources are located at

<http://www.ode.state.or.us/search/results/?id=231>

<b>College:</b>	Clackamas Community College	<b>Date</b>	
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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 checked="" type="checkbox"/> Business & Management	<input type="checkbox"/> Industrial & Engineering Systems

### PROGRAM INFORMATION

<u>APPROVED</u> Program Title  <small>(For Official Program Title, refer to your directory at <a href="http://www.ode.state.or.us/search/results/?id=232">http://www.ode.state.or.us/search/results/?id=232</a>)</small>	<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	Current Credits
	6-digit CIP	7 <sup>th</sup> digit	8 <sup>th</sup> digit		
<b>AAS Title:</b>				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
<b>Option Title**</b>				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
<b>Certificate Title:</b> <i>Within</i> AAS Degree? <input checked="" type="checkbox"/> Yes** <input type="checkbox"/> No <b>CTE Instruction</b>	13.0101	L	*	<input checked="" type="checkbox"/> CC (12-30 credits)	28-30

\*\*Enter name of base degree in 'AAS Title' box

LAST AMENDMENT APPROVED ON 11/2/18

### TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)


<input type="checkbox"/> Title Change for Program	<input type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits	<i>Proposed</i> Total Credits: 27-28
<b><i>Proposed</i> AAS Title:</b>			
<b><i>Proposed</i> OPTION Title:</b>			
<b><i>Proposed</i> Certificate Title:</b>	Career & Technical Education (CTE) Licensure Prep		
<input type="checkbox"/> <b>SUSPENSION</b> of Program	<i>Reason for Suspension:</i>		
<b>Suspension Effective Date:</b>			

++If new program is an additional award for an existing degree or certificate, complete 'Program Information' section for existing program.

## 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.]

<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
<b>Fall Term</b>							
ED-130	Comprehensive Classroom Management	33	3				
ED-220	Introduction to CTE in Oregon	33	3				
<b>Winter Term</b>							
ED-200	Foundations of Education	33	3	ED-100 Or ED-200	Introduction to Education Or Foundations of Education	33-44	3-4
ED-229	Learning & Development	33	3				
				*ED-169 Or ED-254	Overview of Students with Special Needs Or Instructional Strategies for Dual Language Learners	33	3
<b>Spring Term</b>							
ED-131	Instructional Strategies	33	3				
ED-258	Multicultural Education	33	3				
ED-280	Practicum/CWE	108	3	ED-280	Practicum/CWE	216	6
<b>Summer Term</b>							
MTH-105 Or higher	Math in Society	44	4-5	REMOVE			
WR-101 Or higher	Communication Skills: Occupational Writing	33	3-4	REMOVE			
<b>Notes</b>							
The State recommends completion of ED-113 or ED-114, ED-169 and ED-254 but they are not required for program completion.				REMOVE			
				Proof of College (100) level English/Language Arts and Math credits is required for licensure			
				Completion of ED-113 (fall term) or ED-114 (spring term) is required for the Restricted CTE License			
				*Completion of both ED-169 and ED-254 is highly recommended for licensure			
<b>TOTAL CURRENT CREDITS:</b>			28-30	<b>TOTAL PROPOSED CREDITS:</b>			27-28

<b>College Contact</b>	Laurette Scott	<b>Telephone No.</b>	3840
<b>E-Mail Address</b>		<b>Fax No.</b>	
<b>Chief Academic Officer or PTE Dean Signature</b>			<b>Date</b> 1/27/20



## COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

(For changes to State Approved Associate of Applied Science degree, AAS option and Certificate of Completion programs)

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<http://www.ode.state.or.us/search/results/?id=231>

<b>College:</b>	Clackamas Community College	<b>Date</b>	
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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 type="checkbox"/> Industrial & Engineering Systems

### PROGRAM INFORMATION

<u>APPROVED</u> Program Title  <small>(For Official Program Title, refer to your directory at <a href="http://www.ode.state.or.us/search/results/?id=232">http://www.ode.state.or.us/search/results/?id=232</a>)</small>	<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	Current Credits
	6-digit CIP	7 <sup>th</sup> digit	8 <sup>th</sup> digit		
<b>AAS Title: Early Childhood Education &amp; Family Studies</b>	<b>19.0708</b>			<input checked="" type="checkbox"/> <b>AAS (90-108 credits)</b>	<b>90-93</b>
<b>Option Title**</b>				<input type="checkbox"/> <b>OPTION to AAS Degree</b>	
<b>Related Certificates:</b> Early Childhood Education & Family Studies Certificate Family Development CP				<input type="checkbox"/> <b>Certificate of Completion</b>	

\*\*Enter name of base degree in 'AAS Title' box  
LAST AMENDMENT APPROVED ON 04.05.19

### TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> <b>New Program++</b>	<input type="checkbox"/> <b>Curriculum Revision</b>	<input type="checkbox"/> <b>Revision in Program Credits</b>
<input type="checkbox"/> <b>Title Change for Program</b>		<i>Proposed Total Credits:</i> _____
<i>Proposed AAS Title:</i>	_____	
<i>Proposed OPTION Title:</i>	_____	
<i>Proposed Certificate Title:</i>	_____	
<input type="checkbox"/> <b>SUSPENSION of Program</b>	<i>Reason for Suspension:</i>	
<b>Suspension Effective Date:</b>	_____	

**++If new program is an additional award for an existing degree or certificate, complete 'Program Information' section for existing program.**

## 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.]

<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Course Title	Hours	Credits
Early Childhood Education & Family Studies Associate of Applied Science Degree: 1 <sup>st</sup> Year							
Summer Term1							
<b>MTH-050</b> Or <b>MTH-065</b> Or <b>MTH-098</b>	<b>Technical Mathematics I</b> or <b>Algebra II</b> or <b>College Math Foundations</b>	<b>44</b>	<b>4</b>				
<b>WR-101</b> Or <b>WR-121</b>	<b>Communication Skills: Occupational Writing</b> or <b>English Composition</b>	<b>33-44</b>	<b>3-4</b>				
Fall Term2							
ECE-150	Introduction to Early Childhood Education & Family Studies	33	3				
ECE-235	Nutrition, Music & Movement in Early Childhood Education	33	3				
ED-100	Introduction to Education	33	3	ED-100	Introduction to Education	44	4
HDF-225	Prenatal, Infant & Toddler Development	33	3				
--	<b>PE/Health/Safety/First Aid requirement (see page 82)</b>		<b>2-3</b>				
Winter Term3							
ECE-121	Observation and Guidance I in ECE Settings	44	4				
ECE-154	Language & Literacy Development	33	3				
ECE-240	Environments and Curriculum Planning	33	3				
HDF-247	Preschool Child Development	33	3				
Spring Term4							
ECE-179	The Professional in Early Childhood Education and Family Studies	22	2				
ECE-221	Observation & Guidance II in ECE Settings	44	4				
ECE-280	Early Childhood Education/CWE	108	3				
<b>ED-258</b>	<b>Multicultural Education</b>	<b>33</b>	<b>3</b>				
HDF-140 Or SOC-210	Contemporary American Families or	33-44	3-4				

	Marriage, Family, & Intimate Relations						
Early Education & Family Studies Associate of Applied Science Degree: 2 <sup>nd</sup> Year							
Fall Term5							
ECE-239	Helping Children and Families Cope With Stress	33	3				
ECE-241	Environments and Curriculum Planning: Infants and Toddlers	33	3				
HDF-260	Understanding Child Abuse and Neglect	44	4				
--	Early Childhood Education program electives		3	--	Early Childhood Education program electives		2
Winter Term6							
ECE-289	The Project Approach in Early Childhood Education	11	1				
ECE-291	Practicum II	120	4				
ED-169	Overview of Students with Special Needs	33	3				
ED-254	Instructional Strategies for Dual Language Learners	33	3				
--	Early Childhood Education program electives		3				
Spring Term7							
ECE-177	Maximizing the Outdoors in ECE Curriculum	33	3				
ECE-292	Practicum III	120	4				
ED-114	Instructional Strategies in Math & Science	33	3				
ED-246	School, Family & Community Relations	44	4				
Early Childhood Education & Family Studies Program Electives							
BA-101	Introduction to Business	44	4				
COMM-100	Basic Speech Communication	33	3				
ECE-139	Program Management in ECE	11	1				
ECE-142	Media, Technology and the Influences on Child Development	11	1				
ECE-143	Kindergarten Readiness	11	1				
ECE-144	Working with the Gifted Young Child	11	1				
ED-150	Creative Activities for Children	33	3				
ED-229	Learning & Development	33	3				
ED-235	Educational Technology	33	3				
HS-154	Community Resources	33	3				
HST-138	History of Love, Marriage and the Family in Western Civilization	44	4				
PSY-101	Human Relations	33	3				



PSY-205	Psychology as a Social Science	44	4				
PSY-215	Introduction to Developmental Psychology	44	4				
SOC-204	Introduction to Sociology	44	4				
SPN-101	First-Year Spanish I	44	4				
SPN-102	First-Year Spanish II	44	4				
WR-122	English Composition	44	4				
WS-101	Introduction to Women's Studies	44	4				
				COMM-140	Introduction to Intercultural Communication	44	4
				FYE-101	First Year Experience Level I	22	2
<b>TOTAL CURRENT CREDITS:</b>			90-93	<b>TOTAL PROPOSED CREDITS:</b>			

<b>College Contact</b>	Dawn Hendricks	<b>Telephone No.</b>	6158
<b>E-Mail Address</b>		<b>Fax No.</b>	
<b>Chief Academic Officer or PTE Dean Signature</b>			<b>Date</b> 1/27/20



## COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

(For changes to State Approved Associate of Applied Science degree, AAS option and Certificate of Completion programs)

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<http://www.ode.state.or.us/search/results/?id=231>

<b>College:</b>	Clackamas Community College	<b>Date</b>	
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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 type="checkbox"/> Industrial & Engineering Systems

### PROGRAM INFORMATION

<u>APPROVED</u> Program Title  <small>(For Official Program Title, refer to your directory at <a href="http://www.ode.state.or.us/search/results/?id=232">http://www.ode.state.or.us/search/results/?id=232</a>)</small>	<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	Current Credits
	<u>6-digit CIP</u>	<u>7<sup>th</sup> digit</u>	<u>8<sup>th</sup> digit</u>		
<b>AAS Title:</b> Early Childhood Education & Family Studies AAS				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
<b>Option Title**</b>				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
<b>Certificate Title:</b> <u>Within</u> AAS Degree? <input checked="" type="checkbox"/> Yes** <input type="checkbox"/> No Early Childhood Education & Family Studies	19.0701			<input checked="" type="checkbox"/> CC1R Related Certificate (45-60 credits)	49-52

\*\*Enter name of base degree in 'AAS Title' box

LAST AMENDMENT APPROVED ON 04/06/2018

### TYPE OF PROGRAM AMENDMENT


(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		<b>Proposed Total Credits: 50-53</b>
<b>Proposed AAS Title:</b>		
<b>Proposed OPTION Title:</b>		
<b>Proposed Certificate Title:</b>		
<input type="checkbox"/> <b>SUSPENSION</b> of Program	Reason for Suspension:	
<b>Suspension Effective Date:</b>		

**++If new program is an additional award for an existing degree or certificate, complete 'Program Information' section for existing program.**

### CURRICULUM AMENDMENT

<b><i>CURRENT CURRICULUM 19-20</i></b>				<b><i>PROPOSED CURRICULUM 20-21</i></b>			
<small>[List entire curriculum as last approved]</small>				<small>[List only course(s) to be amended]</small>			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
<b>Summer Term</b>							
<b>MTH-050 Or MTH-065 Or MTH-098</b>	<b>Technical Mathematics I or Algebra II or College Math Foundations</b>	<b>44</b>	<b>4</b>				
<b>WR-101 Or WR-121</b>	<b>Communication Skills: Occupational Writing or English Composition</b>	<b>33-44</b>	<b>3-4</b>				
<b>Fall Term</b>							
ECE-150	Introduction to Early Childhood Education & Family Studies	33	3				
ECE-235	Nutrition, Music & Movement in Early Childhood Education	33	3				
ED-100	Introduction to Education	33	3	ED-100	Introduction to Education	44	4
HDF-225	Prenatal, Infant & Toddler Development	33	3				
--	PE/Health/Safety/First Aid requirement (see page 82)		2-3				
<b>Winter Term</b>							
ECE-121	Observation and Guidance I in ECE Settings	44	4				
ECE-154	Language & Literacy Development	33	3				
ECE-240	Environments and Curriculum Planning	33	3				
HDF-247	Preschool Child Development	33	3				
<b>Spring Term</b>							
ECE-179	The Professional in Early Childhood Education and Family Studies	22	2				
ECE-221	Observation & Guidance II in ECE Settings	44	4				
ECE-280	Early Childhood Education/CWE	108	3				
<b>ED-258</b>	<b>Multicultural Education</b>	<b>33</b>	<b>3</b>				
HDF-140 Or SOC-210	Contemporary American Families or Marriage, Family, & Intimate Relations	33-44	3-4				
<b>TOTAL CURRENT CREDITS:</b>			49-52	<b>TOTAL PROPOSED CREDITS:</b>			50-53

<b>College Contact</b>	Dawn Hendricks	<b>Telephone No.</b>	6158
<b>E-Mail Address</b>	dawn.hendricks@clackamas.edu	<b>Fax No.</b>	
<b>Chief Academic Officer <i>or</i> PTE Dean Signature</b>		<b>Date</b>	1/27/20



## COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

(For changes to State Approved Associate of Applied Science degree, AAS option and Certificate of Completion programs)

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<http://www.ode.state.or.us/search/results/?id=231>

<b>College:</b>	Clackamas Community College	<b>Date</b>	1-17-2020
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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  <small>(For Official Program Title, refer to your directory at <a href="http://www.ode.state.or.us/search/results/?id=232">http://www.ode.state.or.us/search/results/?id=232</a>)</small>	<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	Current Credits
	<u>6-digit CIP</u>	<u>7<sup>th</sup> digit</u>	<u>8<sup>th</sup> digit</u>		
<b>Parent Program</b> <b>Electrician Apprenticeship Technologies SAAS</b>	46.0301	I	*	<input type="checkbox"/> Statewide AAS (90-108 credits)	90-101
<b>Apprenticeship Area:</b> Inside Electrician (IE) Limited Energy (LE) Lineman (UL) Meterman (UM) Wireman (UW) Limited Maintenance Electrician (LME) <b>Line Estimator (UE)</b>	AAS.ELECTRICIANIE AAS.ELECTRICIANLE AAS.ELECTRICIANUL AAS.ELECTRICIANUM AAS.ELECTRICIANUW AAS.ELECTRICIANLME <b>AAS.ELECTRICIANUE</b>			<input type="checkbox"/>	
<b>Related Certificates:</b> Electrician Apprenticeship Technologies SCC1 Limited License Electrician Apprenticeship Technologies SCPC				<input type="checkbox"/>	

\*\*Enter name of base degree in 'AAS Title' box

Last amendment approved on 04.05.19

### TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<b>New Program++</b> Title Change for Program	<b>Curriculum Revision</b>	<input type="checkbox"/> Revision in Program Credits
<i>Proposed AAS Title:</i>		<i>Proposed Total Credits:</i>
<i>Proposed OPTION Title:</i>		
<i>Proposed Certificate Title:</i>		
<input type="checkbox"/> <b>SUSPENSION</b> of Program	<i>Reason for Suspension:</i>	

**Suspension Effective Date:**

**++If new program is an additional award for an existing degree or certificate, complete 'Program Information' section for existing program.**

**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.]


<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
APR000	Apprenticeship-Credit for Prior Certification		22				
*APR1000	Computation Related Instruction		3-4				
APR2000	Communication Related Instruction		3-4				
APR3000	Human Relations Related Instruction		3-4				
PEHREQ000	PE/Health Related Instruction		1-3				
APRIE000	Apprenticeship-Inside Electrician (IE)		48				
--	Inside Electrician (IE) Electives		10-5				
APR-125IE	DC Theory	36	3				
APR-134IE	Residential Wiring I	36	3				
APR-135IE	Residential Wiring II	36	3				
APR-136IE	Electrical Design I	36	3				
APR-145IE	Grounding & Bonding	36	3				
APR-155IE	Motors & Transformers	36	3				
APR-165IE	AC Theory	36	3				
APR-175IE	Blueprint Reading for Construction Trades	36	3				
APR-185IE	Electrical Systems	36	3				
APR-235IE	Special Installations	36	3				
APR-236IE	Motors & Controls	36	3				
APR-237IE	Electrical Design II	36	3				
APR-245IE	NEC Analysis I	36	3				
APR-255IE	NEC Analysis II	36	3				
APR-265IE	NEC Analysis III	36	3				
APR-275IE	NEC Analysis IV	36	3				
APRLE000	Apprenticeship-Limited Energy (LE)		36				
--	Limited Energy (LE) Electives		22-17				
APR-111LE	Residential Technologies	48	4				
APR-112LE	Basic Trade, Code & Safety	48	4				
APR-113LE	Specialized Control Systems	48	4				
APR-114LE	Data Communications	48	4				
APR-115LE	Amplified Systems	48	4				
APR-116LE	Security Systems	48	4				
APR-217LE	Integrated Systems	48	4				
APR-218LE	Fire Alarm Systems	48	4				
APR-219LE	ADA & Code	48	4				
APRUL000	Apprenticeship-Lineman (UL)		62				

APR-111UL	Outside Electrical Basic Theory I	55	5				
APR-112UL	Outside Electrical Basic Theory II	55	5				
APR-113UL	Outside Electrical Basic Theory III	55	5				
APR-115UL	Initial Pole Yard Training	80	4				
APR-116UL	Six Month Pole Yard Review Training	40	2				
APR-118UL	Transformer Connections I	24	1				
APR-121UL	Outside Electrical Fundamental Theory I	55	5				
APR-122UL	Outside Electrical Fundamental Theory II	55	5				
APR-123UL	Outside Electrical Fundamental Theory III	55	5				
APR-125UL	Hot Stick Training	80	4				
APR-126UL	Troubleman Training	80	4				
APR-128UL	Transformer Connections II	24	1				
APR-138UL	Transformer Connections III	24	1				
APR-231UL	Outside Electrical Advanced Theory I	55	5				
APR-232UL	Outside Electrical Advanced Theory II	55	5				
APR-233UL	Outside Electrical Advanced Theory III	55	5				
<b>APRUM000</b>	<b>Apprenticeship-Meterman (UM)</b>		<b>59</b>				
APR-110UM	Initial Meterman Training	80	4				
APR-111UM	Metering: Basics I	55	5				
APR-112UM	Metering: Basics II	55	5				
APR-113UM	Metering: Basics III	55	5				
APR-115UW	Substation Metering & Relay Overview	40	2				
APR-116UM	Network Data Operations (NDO) Overview	11	1				
APR-117UM	Special Tester Overview	40	2				
APR-118UL	Transformer Connections I	24	1				
APR-118UM	Leadman Repairman Overview	40	2				
APR-121UM	Metering: Fundamentals I	55	5				
APR-122UM	Metering: Fundamentals II	55	5				
APR-123UM	Metering: Fundamentals III	55	5				
APR-128UL	Transformer Connections II	24	1				
APR-138UL	Transformer Connections III	24	1				
APR-231UM	Metering: Advanced I	55	5				
APR-232UM	Metering: Advanced II	55	5				
APR-233UM	Metering: Advanced III	55	5				
<b>APRUW000</b>	<b>Apprenticeship-Wireman (UW)</b>		<b>64</b>				
APR-110UW	Initial Substation Wireman Training	80	4				
APR-111UW	Basic Substation Wireman I	55	5				
APR-112UW	Basic Substation Wireman II	55	5				

APR-113UW	Basic Substation Wireman III	55	5				
APR-115UW	Substation Metering & Relay Overview	40	2				
APR-116UW	System Control & Data Acquisitions (SCADA) Overview	40	2				
APR-117UW	Safety Coordinator Overview	20	1				
APR-118UW	Substation Operator Overview	40	2				
APR-119UW	Batteryman Overview	40	2				
APR-121UW	Fundamental Substation Wireman I	55	5				
APR-122UW	Fundamental Substation Wireman II	55	5				
APR-123UW	Fundamental Substation Wireman III	55	5				
APR-125UW	Wireman Hotstick Training	80	4				
APR-128UW	Transformer Shop Overview	40	2				
APR-231UW	Advanced Substation Wireman I	55	5				
APR-232UW	Advanced Circuit Theory & Troubleshooting I	55	5				
APR-233UW	Advanced Circuit Theory & Troubleshooting II	55	5				
<b>APRLME000</b>	<b>Apprenticeship-Limited Maintenance Electrician (LME)</b>		<b>29</b>				
--	Limited Maintenance Electrician (LME) Electives		29-24				
APR-104LM	Reading Schematics and Symbols	22	2				
APR-107LM	Industrial Safety & First Aid	33	3				
APR-130LM	Basic Electricity I	33	3				
APR-131LM	Basic Electricity II	33	3				
APR-132LM	Basic Electricity III	33	3				
APR-202LM	Electrical Code Level I	44	4				
APR-203LM	Electrical Code-Level II	44	4				
APR-204LM	Electrical Code-Level III	44	4				
APR-223LM	Instrumentation & Controls	66	3				
				<b>APRUE000</b>	<b>Apprenticeship-Line Estimator (UE)</b>		<b>57</b>
				APR-111UE	Line Estimator Basic I: Tools and Equipment	44	4
				APR-112UE	Line Estimator Basic II: Electrical Theory	44	4
				APR-113UE	Line Estimator Basic III: Wire Circuits	44	4
				APR-121UE	Line Estimator Theory I: Operations	44	4
				APR-122UE	Line Estimator Theory II: Standards	44	4
				APR-123UE	Line Estimator Theory III: Power Line	44	4
				APR-131UE	Electric Utility System Operation (EUSO)	30	3
				APR-132UE	Estimator Navigational Mapping	30	3



				APR-133UE	Estimator Facility Point Inspection	30	3
				APR-134UE	Estimator Phase Design	30	3
				APR-135UE	Estimator Metering	30	3
				APR-136UE	Estimator Transformer Training	30	3
				APR-137UE	Estimator Field Functions	30	3
				APR-231UE	Line Estimator Responsibility I: Live Line	44	4
				APR-232UE	Line Estimator Responsibility II: Substation	44	4
				APR-233UE	Line Estimator Responsibility III: Field Responsibility	44	4
				*4 credits of Computation required for Line Estimator (UE)			
<b>TOTAL CURRENT CREDITS:</b>			90-101	<b>TOTAL PROPOSED CREDITS:</b>			

<b>College Contact</b>		<b>Telephone No.</b>	
<b>E-Mail Address</b>		<b>Fax No.</b>	
<b>Chief Academic Officer or PTE Dean Signature</b>			<b>Date</b> 1/21/20

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## COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

(For changes to State Approved Associate of Applied Science degree, AAS option and Certificate of Completion programs)

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<b>College:</b>	Clackamas Community College	<b>Date</b>	
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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  <small>(For Official Program Title, refer to your directory at <a href="http://www.ode.state.or.us/search/results/?id=232">http://www.ode.state.or.us/search/results/?id=232</a>)</small>	<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	Current Credits
	<u>6-digit CIP</u>	<u>7<sup>th</sup> digit</u>	<u>8<sup>th</sup> digit</u>		
<b>AAS Title:</b>				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
<b>Related Certificates:</b> Wilderness Survival & Leadership CP Wildland Fire Forestry CP Wildland FireFighter 1				<input type="checkbox"/> <b>OPTION</b> to AAS Degree	
<b>Certificate Title:</b> <u>Within</u> AAS Degree? <input checked="" type="checkbox"/> Yes** <input type="checkbox"/> No <b>Fire Science (Wildland)</b>	<b>43.0203</b>			<input checked="" type="checkbox"/> <b>CC1</b> (45-60 credits)	<b>46-48</b>

\*\*Enter name of base degree in 'AAS Title' box

LAST AMENDMENT APPROVED ON 01/19/18

### TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> <b>New Program++</b>	<input type="checkbox"/> <b>Curriculum Revision</b>	<input checked="" type="checkbox"/> <b>Revision in Program Credits</b>	<b>Proposed Total Credits:</b>	<b>45-48</b>
<input type="checkbox"/> <b>Title Change for Program</b>				
<b>Proposed AAS Title:</b>				
<b>Proposed OPTION Title:</b>				
<b>Proposed Certificate Title:</b>	<b>Wildland Fire Science</b>			
<input type="checkbox"/> <b>SUSPENSION</b> of Program	<i>Reason for Suspension:</i>			
<b>Suspension Effective Date:</b>				


**++If new program is an additional award for an existing degree or certificate, complete 'Program Information' section for existing program.**

## 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.]

<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
<b>First Term</b>							
FRP-101	Basic Forest Management	33	3				
FRP-102	Basic Forest Management Lab	33	1				
FRP-130	Introduction to Wildland Firefighting (S-130/S-190/L-180)	44	2				
FRP-243	Wilderness I: Psychology of Survival	22	2	FRP-243	Wilderness I: Psychology of Survival	33	3
<b>WR-101 Or WR-121</b>	<b>Communication Skills: Occupational Writing Or English Composition</b>	<b>33-44</b>	<b>3-4</b>				
--	Fire Science (Wildland) program electives		4	REMOVE			
				GIS-101	Principles of Geospatial Technology	44	2
<b>Second Term</b>							
FRP-211	Portable Pumps and Water Use (S-211)	20	2				
FRP-244	Wilderness II: Basic Land Navigation (S-244)	33	3				
FRP-246	Wilderness IV: Backcountry CPR/First Aid/AED	44	2				
<b>MTH-050 Or MTH-065</b>	<b>Technical Mathematics I Or Algebra II</b>	<b>44</b>	<b>4</b>				
--	Fire Science (Wildland) program electives		5	--	Fire Science (Wildland) program electives		2-3
				FRP-245	Wilderness III: Weather of the Northwest	22	2
<b>Third Term</b>							
FRP-110	Basic Wildland Fire Investigation (FI-110)	10	1				
FRP-131	Advanced Firefighter Training (S-131/S-133)	12	1				
FRP-245	Wilderness III: Weather of the Northwest	22	2	Move to Term 2			
FRP-249	Followership to Leadership (L-280)	20	2				
FRP-250	Wilderness VI: Basic Tool Use and Care	20	1				
FRP-270	Basic Air Operations (S-270)	16	1				
FRP-280	Wildland Fire CWE	108	3	REMOVE			

--	<b>Human Relations requirement</b>		<b>3-4</b>				
--	Fire Science (Wildland) program electives		1	REMOVE			
				BI-103	General Biology; Plants & the Ecosystem	66	4
				BI-103L	General Biology; Plants & The Ecosystem Lab	33	0
				FRP-205	Forest Management Assessments and Inventories	33	3
Wildland Fire Science Program Electives							
Any EMT, FRP, GEO, GIS, or USP course not included in the Fire Science (Wildland) program				Any EMT, FRP, GEO, GIS, or UAS course not included in the Wildland Fire Science program			
<b>TOTAL CURRENT CREDITS:</b>			46-48	<b>TOTAL PROPOSED CREDITS:</b>			45-48

<b>College Contact</b>	Jeff Ennenga	<b>Telephone No.</b>	3539
<b>E-Mail Address</b>		<b>Fax No.</b>	
<b>Chief Academic Officer or PTE Dean Signature</b>			<b>Date</b> 1/16/20



## COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

(For changes to State Approved Associate of Applied Science degree, AAS option and Certificate of Completion programs)

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<b>College:</b>	Clackamas Community College	<b>Date</b>	
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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  <small>(For Official Program Title, refer to your directory at <a href="http://www.ode.state.or.us/search/results/?id=232">http://www.ode.state.or.us/search/results/?id=232</a>)</small>	<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	Current Credits
	<u>6-digit CIP</u>	<u>7<sup>th</sup> digit</u>	<u>8<sup>th</sup> digit</u>		
<b>AAS Title:</b> Fire Science (Wildland) Certificate				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
<b>Option Title**</b>				<input type="checkbox"/> <b>OPTION</b> to AAS Degree	
<b>Certificate Title:</b> <i>Within</i> AAS Degree? <input checked="" type="checkbox"/> Yes** <input type="checkbox"/> No Wilderness Survival & Leadership CP	43.0203			<input checked="" type="checkbox"/> Career Pathway (12-44)	14

\*\*Enter name of base degree in 'AAS Title' box

LAST AMENDMENT APPROVED ON 02/03/17

### TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)


<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		<b>Proposed Total Credits: 15</b>
<b>Proposed AAS Title:</b>		
<b>Proposed OPTION Title:</b>		
<b>Proposed Certificate Title:</b>		
<input type="checkbox"/> <b>SUSPENSION</b> of Program	Reason for Suspension:	
<b>Suspension Effective Date:</b>		

++If new program is an additional award for an existing degree or certificate, complete 'Program Information' section for existing program.

## 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.]

<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
FRP-243	Wilderness I: Psychology of Survival	22	2	FRP-243	Wilderness I: Psychology of Survival	33	3
FRP-244	Wilderness II: Basic Land Navigation (S-244)	33	3				
FRP-245	Wilderness III: Weather of the Northwest	22	2				
FRP-246	Wilderness IV: Backcountry CPR/First Aid/AED	44	2				
FRP-248	Wilderness V: Introduction to Search and Rescue	22	2				
FRP-249	Followership to Leadership (L-280)	20	2				
FRP-250	Wilderness VI: Basic Tool Use and Care	20	1				
Catalog Notes:							
Note: Courses do not need to be taken in sequence							
<b>TOTAL CURRENT CREDITS:</b>			14	<b>TOTAL PROPOSED CREDITS:</b>			15

<b>College Contact</b>	Jeff Ennenga	<b>Telephone No.</b>	3539
<b>E-Mail Address</b>		<b>Fax No.</b>	
<b>Chief Academic Officer or PTE Dean Signature</b>		<b>Date</b>	1/16/20



## COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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<b>College:</b>	Clackamas Community College	<b>Date</b>	
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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 type="checkbox"/> Industrial & Engineering Systems

### PROGRAM INFORMATION

<u>APPROVED</u> Program Title  <small>(For Official Program Title, refer to your directory at <a href="http://www.ode.state.or.us/search/results/?id=232">http://www.ode.state.or.us/search/results/?id=232</a>)</small>	<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	Current Credits
	<u>6-digit CIP</u>	<u>7<sup>th</sup> digit</u>	<u>8<sup>th</sup> digit</u>		
<b>Parent Program:</b> Fire Science (Wildland) Certificate				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
<b>Option Title**</b>				<input type="checkbox"/> <b>OPTION</b> to AAS Degree	
<b>Certificate Title:</b> <u>Within</u> AAS Degree? <input checked="" type="checkbox"/> Yes** <input type="checkbox"/> No Wildland Fire Forestry – Career Pathway	43.0203			<input checked="" type="checkbox"/> Career Pathway (12-44)	19

\*\*Enter name of base degree in 'AAS Title' box

### TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)


<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		<b>Proposed Total Credits: 18</b>
<b>Proposed AAS Title:</b>		
<b>Proposed OPTION Title:</b>		
<b>Proposed Certificate Title:</b>		
<input type="checkbox"/> <b>SUSPENSION</b> of Program	Reason for Suspension:	
<b>Suspension Effective Date:</b>		

++If new program is an additional award for an existing degree or certificate, complete 'Program Information' section for existing program.

## 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.]

<b><i>CURRENT CURRICULUM 19-20</i></b>				<b><i>PROPOSED CURRICULUM 20-21</i></b>			
<small>[List entire curriculum as last approved]</small>				<small>[List only course(s) to be amended]</small>			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
BI-103	General Biology; Plants & the Ecosystem	66	4				
BI-103L	General Biology; Plants & The Ecosystem Lab	33	0				
FRP-101	Basic Forest Management	33	3				
FRP-102	Basic Forest Management Lab	33	1				
FRP-201	Advanced Forest Management	33	3				
FRP-205	Forest Management Assessments and Inventories	33	3	REMOVE			
FRP-244	Wilderness II: Basic Land Navigation (S-244)	33	3				
FRP-246	Wilderness IV: Backcountry CPR/First Aid/AED	44	2				
				GIS-101	Principles of Geospatial Technology	44	2
<b>TOTAL CURRENT CREDITS:</b>			19	<b>TOTAL PROPOSED CREDITS:</b>			18

<b>College Contact</b>	Jeff Ennenga	<b>Telephone No.</b>	3539
<b>E-Mail Address</b>		<b>Fax No.</b>	
<b>Chief Academic Officer or PTE Dean Signature</b>			<b>Date</b> 1/16/20





## COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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<b>College:</b>	Clackamas Community College	<b>Date</b>	
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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 checked="" type="checkbox"/> Business & Management	<input type="checkbox"/> Industrial & Engineering Systems

### PROGRAM INFORMATION

<u>APPROVED</u> Program Title  <small>(For Official Program Title, refer to your directory at <a href="http://www.ode.state.or.us/search/results/?id=232">http://www.ode.state.or.us/search/results/?id=232</a>)</small>	<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	Current Credits
	<u>6-digit CIP</u>	<u>7<sup>th</sup> digit</u>	<u>8<sup>th</sup> digit</u>		
<b>AAS Title:</b> <b>Wildland Fire Management</b>				<input checked="" type="checkbox"/> <b>AAS</b> <b>(90-108 credits)</b>	<b>90-94</b>
<b>Option Title**</b>				<input type="checkbox"/> <b>OPTION to AAS Degree</b>	
<b>Certificate Title:</b> <i>Within</i> AAS Degree? <input type="checkbox"/> Yes** <input type="checkbox"/> No				<input type="checkbox"/> <b>Certificate of Completion</b>	

\*\*Enter name of base degree in 'AAS Title' box

### TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)


<input type="checkbox"/> <b>New Program++</b>	<input type="checkbox"/> <b>Curriculum Revision</b>	<input type="checkbox"/> <b>Revision in Program Credits</b>
<input type="checkbox"/> <b>Title Change for Program</b>		<b>Proposed Total Credits:</b> <b>90-93</b>
<b>Proposed AAS Title:</b>		
<b>Proposed OPTION Title:</b>		
<b>Proposed Certificate Title:</b>		
<input type="checkbox"/> <b>SUSPENSION of Program</b>	<i>Reason for Suspension:</i>	
<b>Suspension Effective Date:</b>		

++If new program is an additional award for an existing degree or certificate, complete 'Program Information' section for existing program.

## 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.]

<b>CURRENT CURRICULUM 19-20</b> [List entire curriculum as last approved]				<b>PROPOSED CURRICULUM 20-21</b> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
1 <sup>st</sup> Year							
Fall Term							
FRP-101	Basic Forest Management	33	3				
FRP-102	Basic Forest Management Lab	33	1				
FRP-130	Introduction to Wildland Firefighting (S-130/S-190/L-180)	44	2				
FRP-243	Wilderness I: Psychology of Survival	22	2	FRP-243	Wilderness I: Psychology of Survival	33	3
<b>WR-101 Or WR-121</b>	<b>Communication Skills: Occupational Writing or English Composition</b>	<b>33-44</b>	<b>3-4</b>				
--	Program Electives		4	--	Program Electives		1
				GIS-101	Principles of Geospatial Technology	44	2
Winter Term							
FRP-211	Portable Pumps and Water Use (S-211)	20	2				
FRP-244	Wilderness II: Basic Land Navigation (S-244)	33	3				
FRP-246	Wilderness IV: Backcountry CPR/First Aid/AED	44	2	FRP-246	Wilderness IV: Backcountry CPR/First Aid/AED	44	2
<b>MTH-050 Or MTH-065</b>	<b>Technical Mathematics I Or Algebra II</b>	<b>44</b>	<b>4</b>				
--	<b>Related Instruction: PE/Health/Safety/First Aid</b>		<b>1-3</b>	Remove			
--	Program Electives		4	--	Program Electives		2-3
				FRP-245	Wilderness III: Weather of the Northwest	22	2
Spring Term							
FRP-110	Basic Wildland Fire Investigation (FI-110)	10	1				
FRP-131	Advanced Firefighter Training (S-131/S-133)	12	1				
FRP-245	Wilderness III: Weather of the Northwest	22	2	Move to Term 2			
FRP-249	Followership to Leadership (L-280)	20	2				
FRP-250	Wilderness VI: Basic Tool Use and Care	20	1				
FRP-270	Basic Air Operations (S-270)	16	1				

FRP-280	Wildland Fire CWE	108	3	Remove			
--	<b>Related Instruction: Human Relations</b>		<b>3-4</b>				
				BI-103	General Biology; Plants & the Ecosystem	66	4
				BI-103L	General Biology; Plants & The Ecosystem Lab	33	0
				FRP-205	Forest Management Assessments and Inventories	33	3
--	Program Electives		1	REMOVE			
2 <sup>nd</sup> Year							
Fall Term							
FRP-200	Basic Incident Command System (I-100, I-200, IS-700, IS-800)	44	4				
FRP-275	Wildland Fire Management 1	40	4				
FRP-290	Intermediate Wildland Fire Behavior (S-290)	32	3	Move to Term 5			
GIS-201	Introduction to Geographic Information Systems	66	3				
--	Program Electives		1	--	Program Electives		4
Winter Term							
FRP-215	Fire Operations in the Urban Interface (S-215)	24	2				
FRP-220	Initial Attack Incident Commander (S-200)	16	1				
FRP-265	Wildland Fire Prevention Education 1 (P-101)	33	3				
--	GIS Electives		3				
--	Program Electives		6	--	Program Electives		3
				FRP-290	Intermediate Wildland Fire Behavior (S-290)	32	3
Spring Term							
FRP-212	Wildfire Power Saws (S-212)	40	2				
FRP-230	Crew Boss (Single Resource) (S-230)	24	2				
FRP-231	Engine Boss (Single Resource) (S-231)	12	1				
FRP-280	Wildland Fire CWE	108	3	REMOVE			
--	Program Electives		6	--	Program Electives		7
				--	GIS Electives		2-3
Program Electives							
Any EMT, FRP, GEO, GIS, or USP course not included in the Wildland Fire Management Program.				Any EMT, FRP, GEO, GIS, or UAS course not included in the Wildland Fire Management Program.			
<b>TOTAL CURRENT CREDITS:</b>			90-94	<b>TOTAL PROPOSED CREDITS:</b>			90-93
<b>College Contact</b>	Jeff Ennenga			<b>Telephone No.</b>	3539		
<b>Chief Academic Officer or PTE Dean Signature</b>				<b>Date</b>	1/16/20		



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<b>College:</b>	Clackamas Community College	<b>Date</b>	
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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  <small>(For Official Program Title, refer to your directory at <a href="http://www.ode.state.or.us/search/results/?id=232">http://www.ode.state.or.us/search/results/?id=232</a>)</small>	<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	Current Credits
	<u>6-digit CIP</u>	<u>7<sup>th</sup> digit</u>	<u>8<sup>th</sup> digit</u>		
<b>AAS Title:</b> Fire Science (Wildland) Certificate				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
<b>Option Title**</b>				<input type="checkbox"/> <b>OPTION</b> to AAS Degree	
<b>Certificate Title:</b> <i>Within</i> AAS Degree? <input checked="" type="checkbox"/> Yes** <input type="checkbox"/> No Wildland FireFighter 1 – Career Pathway	43.0203			<input checked="" type="checkbox"/> Career Pathway (12-44)	12

\*\*Enter name of base degree in 'AAS Title' box

LAST AMENDMENT APPROVED ON 11/17/17

### TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)


<input type="checkbox"/> New Program++	<input checked="" type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		<b>Proposed Total Credits: 14</b>
<b>Proposed AAS Title:</b>		
<b>Proposed OPTION Title:</b>		
<b>Proposed Certificate Title:</b>		
<input type="checkbox"/> <b>SUSPENSION</b> of Program	<i>Reason for Suspension:</i>	
<b>Suspension Effective Date:</b>		

++If new program is an additional award for an existing degree or certificate, complete 'Program Information' section for existing program.

## 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.]

<b><i>CURRENT CURRICULUM 19-20</i></b>				<b><i>PROPOSED CURRICULUM 20-21</i></b>			
[List entire curriculum as last approved]				[List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
FRP-130	Introduction to Wildland Firefighting (S-130/S-190/L-180)	44	2				
FRP-131	Advanced Firefighter Training (S-131/S-133)	12	1				
FRP-211	Portable Pumps and Water Use (S-211)	20	2				
FRP-244	Wilderness II: Basic Land Navigation (S-244)	33	3				
FRP-246	Wilderness IV: Backcountry CPR/First Aid/AED	44	2				
FRP-250	Wilderness VI: Basic Tool Use and Care	20	1				
FRP-270	Basic Air Operations (S-270)	16	1				
				FRP-249	Followership to Leadership (L-280)	20	2
<b>TOTAL CURRENT CREDITS:</b>			12	<b>TOTAL PROPOSED CREDITS:</b>			14

<b>College Contact</b>	Jeff Ennenga	<b>Telephone No.</b>	3539
<b>E-Mail Address</b>	Jeff.ennenga@clackamas.edu	<b>Fax No.</b>	
<b>Chief Academic Officer or PTE Dean Signature</b>			<b>Date</b> 1/16/20