

Program
Administrative Assistant CC
Administrative Professional AAS
AS Engineering - George Fox
AS Engineering - OIT Electrical
AS Engineering - OIT Mechanical
AS Engineering - OIT Renewable Energy
AS Engineering - OSU Biological
AS Engineering - OSU Chemical
AS Engineering - OSU Civil
AS Engineering - OSU Construction Engineering Management
AS Engineering - OSU Ecological
AS Engineering - OSU Electrical
AS Engineering - OSU Energy Systems
AS Engineering - OSU Environmental
AS Engineering - OSU Industrial Manufacturing
AS Engineering - OSU Mechanical
AS Engineering - PSU Civil Environmental
AS Engineering - PSU Electrical Computer
AS Engineering - PSU Mechanical
Auto Body/Collision Repair and Refinishing Technology AAS
Basic Health Sciences CPCC
Clinical Laboratory Assistant CC
Criminal Justice AAS
Criminal Justice AAS – Corrections Option
Emergency Medical Technology CC
Geographic Information Systems (GIS) Technology CC
Horticulture AAS
Human Resource Management CC
Landscape Management AAS
Landscape Management AAS - Arboriculture Option
Medical Assistant CC
Organic Farming CC
Retail Management CC



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>

College:	Clackamas Community College	Date	
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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 http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
Parent AAS Title: Administrative Professional AAS				<input type="checkbox"/> AAS	
Option Title**				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Certificate Title: <i>Within</i> AAS Degree? <input checked="" type="checkbox"/> Yes** <input type="checkbox"/> No Administrative Assistant	52.0401			<input checked="" type="checkbox"/> CC1R Related Certificate (45-60 credits)	45

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

Last amendment approved on 05.18.18

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		<i>Proposed</i> Total Credits: _____
<i>Proposed</i> AAS Title:		
<i>Proposed</i> OPTION Title:		
<i>Proposed</i> Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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 2018-19 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2019-20 [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Fall Term							
BT-120	Personal Keyboarding	33	2				
BT-121	Data Entry	11	1				
BT-124	Business Editing I	33	3	Move to Term 2			
BT-160	Word I	55	3				
WR-121	English Composition	44	4				
				BA-104	Business Math	33	3
				BA-131	Introduction to Business Computing	44	4
Winter Term							
BA-104	Business Math	33	3	Move to Term 1			
BA-131	Introduction to Business Computing	44	4				
BT-122	Keyboarding Skillbuilding	33	2				
BT-125	Business Editing II	33	3	Move to Term 3			
BT-161	Word II	55	3				
				BA-111 or BA-211	General Accounting I Financial Accounting I	44	4
				BT-124	Business Editing I	33	3
				BT-160	Word I	55	3
				--	Administrative Assistant program electives		3
Spring Term							
BA-111 or BA-211	General Accounting I Financial Accounting I	44	4	Move to Term 2			
BA-285	Human Relations in Business	44	4				
BT-172	Introduction to Microsoft Outlook	33	2				
BT-216	Office Procedures	44	4				
--	Administrative Assistant program electives		3	Move to Term 2			
				BT-125	Business Editing II	33	3
				BT-161	Word II	55	3
Program Electives							
Any Business Administration (BA) or Business Technology (BT) course not included in the Administrative Assistant program.							
TOTAL CURRENT CREDITS:			45	TOTAL PROPOSED CREDITS:			

College Contact	Bev Forney	Telephone No.	3115
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature			Date 12/3/18



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>

College:	Clackamas Community College	Date	
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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	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)	6-digit CIP	7 th digit	8 th digit	<input checked="" type="checkbox"/> Statewide AAS (90-108 credits)	90
	AAS Title: Administrative Professional	52.0401			
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Related Certificates: Administrative Assistant Certificate Administrative Assistant Training Certificate				<input type="checkbox"/> Certificate of Completion	

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

Last amendment approved on 05.18.18

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		Proposed Total Credits: _____
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION 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.]

CURRICULUM AMENDMENT							
<i>CURRENT CURRICULUM 2018-19</i> [List entire curriculum as last approved]				<i>PROPOSED CURRICULUM 2019-20</i> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
1 st Year							
Fall Term							
BA-101	Introduction to Business	44	4				
BT-120	Personal Keyboarding	33	2	Move to Term 2			
BT-121	Data Entry	11	1				
BT-124	Business Editing I	33	3				
WR-121	English Composition	44	4				
				BA-104	Business Math	33	3
				BA-131	Introduction to Business Computing	44	4
Winter Term							
BA-104	Business Math	33	3	Move to Term 1			
BA-131	Introduction to Business Computing	44	4				
BT-122	Keyboarding Skillbuilding	33	2	Move to Term 6			
BT-125	Business Editing II	33	3	Move to Term 3			
BT-160	Word I	55	3				
				BA-111 or BA-211	General Accounting I Financial Accounting I	44	4
				BT-120	Personal Keyboarding	33	2
				BT-121	Data Entry	11	1
				BT-124	Business Editing I	33	3
Spring Term							
BA-111 or BA-211	General Accounting I Financial Accounting I	44	4	Move to Term 2			
BT-161	Word II	55	3				
BT-172	Introduction to Microsoft Outlook	33	2				
CS-135S	Microsoft Excel	33	3				
--	Administrative Professional Program elective		3				
				BT-125	Business Editing II	33	3
2 nd Year							
Fall Term							
BA-205	Business Communications with Technology	44	4				
BA-226	Business Law I	44	4				
BA-285	Human Relations in Business	44	4				
BT-262	Integrated Projects	66	4				
Winter Term							
BA-206	Management Fundamentals	44	4				
BA-218	Personal Finance	44	4				

BA-224	Human Resource Management	44	4				
--	PE/Health/Safety/First Aid requirement		1				
--	Administrative Professional program elective		3				
Spring Term							
BA-228	Computerized Accounting	33	3				
BT-216	Office Procedures	44	4				
BT-271	Advanced Business Projects	110	4				
--	Administrative Professional program elective		3				
				BT-122	Keyboarding Skillbuilding	33	2
Administrative Professional Program Electives							
Any Business Administration (BA) or Business Technology (BT) course not included in the Administrative Professional program.							
TOTAL CURRENT CREDITS:			90	TOTAL PROPOSED CREDITS:			

College Contact	Bev Forney	Telephone No.	3115
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature			Date 12/3/18



COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

College:	Clackamas Community College	Date:	
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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 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AS Area of Emphasis Title: Engineering				Associate of Applied Science Area of Emphasis	105
Partnering Institution Name George Fox University					

Last amendment approved on 10.06.17

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>	105-106
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>		
Suspension Effective Date:			

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 2018-19

[List entire curriculum as last approved]

PROPOSED CURRICULUM 2019-20

[List only course(s) to be amended]

Course	Title	Hours	Credits	Course	Title	Hours	Credits
Program Requirements – First Year							
Fall Term							
CH-221	General Chemistry	77	5				
ENGR-111	Introduction to Engineering	33	3				
MTH-251	Calculus I	55	5				
Winter Term							
CH-222	General Chemistry	77	5				
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
--	Engineering Elective		4				
Spring Term							
ENGR-115	Engineering Graphics	33	3				
MTH-243	Statistics I	44	4				
MTH-253	Calculus III	55	5				
WR-121	English Composition	44	4				
Summer Term							
EC-201 Or EC-202	Principles of Economics: MICRO or Principles of Economics: MACRO	44	4				
WR-122	English Composition	44	4				
Program Requirements – 2nd Year							
Fall Term							
MTH-254	Vector Calculus	55	5				
PH-211	General Physics with Calculus	70	5				
--	Engineering Elective		8				
Winter Term							
COMM-111	Public Speaking	44	4				
MTH-256	Differential Equations	44	4				
PH-212	General Physics with Calculus	70	5				
--	Engineering Elective		4	--	Engineering Elective		3-4
Spring Term							
HPE-295	Health & Fitness for Life	60	3	REMOVE			
MTH-261	Linear Algebra	44	4				
PH-213	General Physics with Calculus	70	5				
--	History elective		4				
				--	Intercultural Experience Elective		4
Electives							
Electrical & Computer Engineering majors:							
ENGR-171	Digital Logic		4				
ENGR-271	Digital Systems		4				
ENGR-221	Electrical Circuit Analysis I		4				
ENGR-222	Electrical Circuit Analysis II		4				
Mechanical & Civil Engineering majors:				Biomedical, Civil, and Mechanical Engineering majors:			
ENGR-211	Statics		4				

ENGR-212	Dynamics		4				
ENGR-231	Properties of Materials		4				
				HPE-295	Health & Fitness for Life	60	3
Intercultural Experience Elective:							
Choose one of the following: FR/GER/SPN-101, 102, 103, 201, 202, 203; ANT-103; COMM-140; ENG-107, 108, 109; R-210							
History Elective:							
Choose one of the following: HST-101, 102, 103, 201, 202, 203; PS-205;							
TOTAL CURRENT CREDITS:			105	TOTAL PROPOSED CREDITS:			105-106
College Contact	Eric Lee			Telephone No.	6163		
E-Mail Address	elee@clackamas.edu			Fax No.			
Chief Academic Officer or CTE Dean Signature						Date	1/8/19



COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

College:	Clackamas Community College	Date:	
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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 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AS Area of Emphasis Title: Engineering - Electrical Engineering				Associate of Applied Science Area of Emphasis	104
Partnering Institution Name Oregon Institute of Technology (Oregon Tech)					

Last amendment approved on 10/06/17

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>	102-104
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>		
Suspension Effective Date:			

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 2018-19

[List entire curriculum as last approved]

PROPOSED CURRICULUM 2019-20

[List only course(s) to be amended]

Course	Title	Hours	Credits	Course	Title	Hours	Credits
Program Requirements – 1st Year							
Fall Term							
CH-221	General Chemistry	77	5				
COMM-111	Public Speaking	44	4	Move to Term 3			
MTH-251	Calculus I	55	5				
WR-121	English Composition	44	4				
				ENGR-111	Introduction to Engineering	33	3
Winter Term							
CH-222	General Chemistry	77	5				
MTH-252	Calculus II	55	5				
WR-122	English Composition	44	4	Move to Term 6			
				CS-161	Computer Science I	44	4
				ENGR-171	Digital Logic	66	4
Spring Term							
WR-227	Technical Report Writing	44	4				
--	Social Science Elective		4	REMOVE			
--	Track Requirement		8	REMOVE			
				COMM-111	Public Speaking	44	4
				ENGR-271	Digital Systems	66	4
				MTH-261	Linear Algebra	44	4
Summer Term							
--	Track Requirement		12	REMOVE			
				--	Social Science Elective		3-4
Program Requirements – 2nd Year							
Fall Term							
ENGR-221	Electrical Circuit Analysis I	33	4				
MTH-254	Vector Calculus	55	5				
PH-211	General Physics with Calculus	70	5				
				--	Humanities or Social Science Elective		3-4
Winter Term							
ENGR-222	Electrical Circuit Analysis II	33	4				
MTH-256	Differential Equations	44	4				
PH-212	General Physics with Calculus	70	5				
				WR-122	English Composition	44	4
Spring Term							
PH-213	General Physics with Calculus	70	5				
--	Track Requirement		12	REMOVE			
				ENGR-223	Electrical Circuit Analysis III	33	4
				MTH-253	Calculus III	55	5
Track Requirements							
Electrical							
COMM-219	Small Group Discussion	44	4	REMOVE			
CS-161	Computer Science I	44	4	Move to Term 2			
ENGR-171	Digital Logic	66	4	Move to Term 2			
ENGR-223	Electrical Circuit Analysis III	33	4	Move to Term 7			
ENGR-271	Digital Systems	66	4	Move to Term 3			
MTH-253	Calculus III	55	5	Move to Term 7			
MTH-261	Linear Algebra	44	4	Move to Term 3			

--	Humanities or Social Science Electives	33	3	REMOVE	
Social Science Electives					
ANT-101, 102, 103, 231, 232; EC-200, 201, 202; GEO-100, 110, 121, 122, 130; HST-101, 102, 103, 130, 131, 132, 136, 137, 138, 201, 202, 203, 220; PS-200, 201, 203, 204, 205, 225, 297; PSY-101, 110, 200, 205, 214, 215, 219, 221, 231, 240; SSC-160, 233, 235, 240, 241, 242; SOC-204, 205, 206, 210, 225; WS-101;			Choose courses from the following subjects: ANT, EC, GEO, HST, PS, PSY, SOC, SSC, WS		
Humanities Electives					
ART-101, 102, 103, 115, 116, 117, 131, 195, 204, 205, 206, 225, 226, 227, 250, 251, 252, 253, 254, 255, 281, 282, 283, 284, 285, 286, 291, 292, 293; ASL-201, 202, 203; BA-130; COMM-126, 140, 212, 218, 219, 227; DMC-195; ENG-104, 105, 106, 107, 108, 109, 116, 121, 130, 195, 201, 202, 204, 205, 213, 214, 218, 226, 240, 241, 242, 250, 251, 252, 253, 254, 266, 270; FR-201, 202, 203, 211; GER-201, 202, 203; HUM-160, 233, 240, 241, 242; J-211; MUS-105, 111, 112, 113, 205, 206, 211, 212, 213; PHL-101, 102, 103, 205, 210, 215; SPN-201, 202, 203; TA-101, 102, 103, 141, 142, 143; WR-220, 241, 242, 243, 244, 245, 248, 262, 263, 265, 270;			Choose courses from the following subjects: ART, ASL (200-level), ENG, FR (200-level), GER (200-level), HUM, MUS, PHL, R, SPN (200-level), TA		
TOTAL CURRENT CREDITS:		104	TOTAL PROPOSED CREDITS:		102-104
College Contact				Telephone No.	
E-Mail Address				Fax No.	
Chief Academic Officer or CTE Dean Signature					Date 1/8/19



COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

College:	Clackamas Community College	Date:	
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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 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AS Area of Emphasis Title: Engineering - Mechanical Engineering				Associate of Applied Science Area of Emphasis	104
Partnering Institution Name Oregon Institute of Technology (Oregon Tech)					


Last amendment approved on 10/06/17

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>	103-105
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>		
Suspension Effective Date:			

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 2018-19 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2019-20 [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Program Requirements – 1st Year							
Fall Term							
CH-221	General Chemistry	77	5				
COMM-111	Public Speaking	44	4	Move to Term 3			
MTH-251	Calculus I	55	5				
WR-121	English Composition	44	4				
				ENGR-111	Introduction to Engineering	33	3
Winter Term							
CH-222	General Chemistry	77	5				
MTH-252	Calculus II	55	5				
WR-122	English Composition	44	4				
				ENGR-231	Properties of Materials	66	4
Spring Term							
WR-227	Technical Report Writing	44	4				
--	Social Science Elective		4	REMOVE			
--	Track Requirement		8	REMOVE			
				COMM-111	Public Speaking	44	4
				ENGR-112	Engineering Programming	33	3
				MTH-254	Vector Calculus	55	5
Summer Term							
--	Track Requirement		12	REMOVE			
				MTH-256	Differential Equations	44	4
				--	Social Science Elective		3-4
Program Requirements – 2nd Year							
Fall Term							
ENGR-221	Electrical Circuit Analysis I	66	4	REMOVE			
MTH-254	Vector Calculus	55	5	Move to Term 3			
PH-211	General Physics with Calculus	70	5				
				ENGR-211	Statics	44	4
				MTH-261	Linear Algebra	44	4
Winter Term							
ENGR-222	Electrical Circuit Analysis II	66	4	REMOVE			
MTH-256	Differential Equations	44	4	Move to Term 4			
PH-212	General Physics with Calculus	70	5				
				CDT-103	Computer-Aided Drafting I	66	3
				ENGR-212	Dynamics	44	4
				--	Humanities Electives		3-4
Spring Term							
PH-213	General Physics with Calculus	70	5				
--	Track Requirement		12	REMOVE			
				EC-201 Or EC-202	Principles of Economics: MICRO Principles of Economics: MACRO	44	4
				ENGR-201	Electrical Fundamentals	33	4
				ENGR-213	Strength of Materials	44	4
Track Requirements							
Mechanical							
CDT-103	Computer-Aided Drafting I	66	3	Move to Term 6			
EC-201 Or MICRO	Principles of Economics: MICRO	44	4	Move to Term 7			

EC-202	Principles of Economics: MACRO			
ENGR-111	Introduction to Engineering	33	3	Move to Term 1
ENGR-112	Engineering Programming	33	3	Move to Term 3
ENGR-211	Statics	44	4	Move to Term 5
ENGR-212	Dynamics	44	4	Move to Term 6
ENGR-213	Strength of Materials	44	4	Move to Term 7
ENGR-231	Properties of Materials	66	4	Move to Term 2
--	Humanities Electives	33	3	REMOVE
Social Science Electives				
ANT-101, 102, 103, 231, 232; EC-200, 201, 202; GEO-100, 110, 121, 122, 130; HST-101, 102, 103, 130, 131, 132, 136, 137, 138, 201, 202, 203, 220; PS-200, 201, 203, 204, 205, 225, 297; PSY-101, 110, 200, 205, 214, 215, 219, 221, 231, 240; SSC-160, 233, 235, 240, 241, 242; SOC-204, 205, 206, 210, 225; WS-101;		Choose courses from the following subjects: ANT, EC, GEO, HST, PS, PSY, SOC, SSC, WS		
Humanities Electives				
ART-101, 102, 103, 115, 116, 117, 131, 195, 204, 205, 206, 225, 226, 227, 250, 251, 252, 253, 254, 255, 281, 282, 283, 284, 285, 286, 291, 292, 293; ASL-201, 202, 203; BA-130; COMM-126, 140, 212, 218, 219, 227; DMC-195; ENG-104, 105, 106, 107, 108, 109, 116, 121, 130, 195, 201, 202, 204, 205, 213, 214, 218, 226, 240, 241, 242, 250, 251, 252, 253, 254, 266, 270; FR-201, 202, 203, 211; GER-201, 202, 203; HUM-160, 233, 240, 241, 242; J-211; MUS-105, 111, 112, 113, 205, 206, 211, 212, 213; PHL-101, 102, 103, 205, 210, 215; SPN-201, 202, 203; TA-101, 102, 103, 141, 142, 143; WR-220, 241, 242, 243, 244, 245, 248, 262, 263, 265, 270;		Choose courses from the following subjects: ART, ASL (200-level), ENG, FR (200-level), GER (200-level), HUM, MUS, PHL, R, SPN (200-level), TA		
TOTAL CURRENT CREDITS:		104		TOTAL PROPOSED CREDITS: 103-105
College Contact				Telephone No.
E-Mail Address				Fax No.
Chief Academic Officer or CTE Dean Signature				Date 1/8/19



COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

College:	Clackamas Community College	Date:	
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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 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AS Area of Emphasis Title: Engineering – Renewable Energy				Associate of Applied Science Area of Emphasis	104
Partnering Institution Name Oregon Institute of Technology (Oregon Tech)					


Last amendment approved on 10/06/17

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> 99-104
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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 2018-19 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2019-20 [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Program Requirements – 1st Year							
Fall Term							
CH-221	General Chemistry	77	5				
COMM-111	Public Speaking	44	4	Move to Term 2			
MTH-251	Calculus I	55	5				
WR-121	English Composition	44	4				
				RET-200 Or ENGR-111	Renewable Energy Systems Or Introduction to Engineering		3-4
Winter Term							
CH-222	General Chemistry	77	5				
MTH-252	Calculus II	55	5				
WR-122	English Composition	44	4	Move to Term 5			
				COMM-111	Public Speaking	44	4
				--	Humanities Elective		3-4
Spring Term							
WR-227	Technical Report Writing	44	4				
--	Social Science Elective		4	REMOVE			
--	Track Requirement		8	REMOVE			
				EC-201 Or EC-202	Principles of Economics: MICRO Principles of Economics: MACRO	44	4
				MTH-261	Linear Algebra	44	4
				--	Humanities Elective		3-4
Summer Term							
--	Track Requirement		12	REMOVE			
Program Requirements – 2nd Year							
Fall Term							
ENGR-221	Electrical Circuit Analysis I	33	4				
MTH-254	Vector Calculus	55	5				
PH-211	General Physics with Calculus	70	5				
				ENGR-211	Statics	44	4
Winter Term							
ENGR-222	Electrical Circuit Analysis II	33	4				
MTH-256	Differential Equations	44	4				
PH-212	General Physics with Calculus	70	5				
				WR-122	English Composition	44	4
Spring Term							
PH-213	General Physics with Calculus	70	5				
--	Track Requirement		12	REMOVE			
				ENGR-223	Electrical Circuit Analysis III	33	4
				--	Social Science Elective		3-4
				--	Social Science Elective		3-4
Track Requirements							
Renewable Energy							
COMM-219	Small Group Discussion	44	4	REMOVE			
EC-201 Or EC-202	Principles of Economics: MICRO Principles of Economics: MACRO	44	4	Move to Term 3			

ENGR-211	Statics	44	4	Move to Term 4	
ENGR-223	Electrical Circuit Analysis III	33	4	Move to Term 6	
MTH-243	Statistics I	44	4	REMOVE	
MTH-244	Statistics II	44	4		
MTH-261	Linear Algebra	44	4	Move to Term 3	
RET-200	Renewable Energy Systems	44	4	Move to Term 1	
Social Science Electives					
ANT-101, 102, 103, 231, 232; EC-200, 201, 202; GEO-100, 110, 121, 122, 130; HST-101, 102, 103, 130, 131, 132, 136, 137, 138, 201, 202, 203, 220; PS-200, 201, 203, 204, 205, 225, 297; PSY-101, 110, 200, 205, 214, 215, 219, 221, 231, 240; SSC-160, 233, 235, 240, 241, 242; SOC-204, 205, 206, 210, 225; WS-101;			Choose courses from the following subjects: ANT, EC, GEO, HST, PS, PSY, SOC, SSC, WS		
Humanities Electives					
ART-101, 102, 103, 115, 116, 117, 131, 195, 204, 205, 206, 225, 226, 227, 250, 251, 252, 253, 254, 255, 281, 282, 283, 284, 285, 286, 291, 292, 293; ASL-201, 202, 203; BA-130; COMM-126, 140, 212, 218, 219, 227; DMC-195; ENG-104, 105, 106, 107, 108, 109, 116, 121, 130, 195, 201, 202, 204, 205, 213, 214, 218, 226, 240, 241, 242, 250, 251, 252, 253, 254, 266, 270; FR-201, 202, 203, 211; GER-201, 202, 203; HUM-160, 233, 240, 241, 242; J-211; MUS-105, 111, 112, 113, 205, 206, 211, 212, 213; PHL-101, 102, 103, 205, 210, 215; SPN-201, 202, 203; TA-101, 102, 103, 141, 142, 143; WR-220, 241, 242, 243, 244, 245, 248, 262, 263, 265, 270;			Choose courses from the following subjects: ART, ASL (200-level), ENG, FR (200-level), GER (200-level), HUM, MUS, PHL, R, SPN (200-level), TA		
TOTAL CURRENT CREDITS:			104	TOTAL PROPOSED CREDITS:	99-104
College Contact				Telephone No.	
E-Mail Address				Fax No.	
Chief Academic Officer or CTE Dean Signature					Date 1/8/19



COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

College:	Clackamas Community College	Date:	
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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 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
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 01.20.17

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"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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 2018-19 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2019-20 [List only course(s) to be amended]			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
Program Requirements – 1st 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							
BI-204	Elementary Microbiology	66	4				
CH-221	General Chemistry	77	5				
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
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				
--	Social Process elective		4				
Program Requirements – 2nd Year							
Fall Term							
CH-241	Organic Chemistry I	77	5				
ENGR-211	Statics	44	4				
PH-211	General Physics with Calculus	70	5				
Winter Term							
CH-242	Organic Chemistry II	77	5				
MTH-253	Calculus III	55	5				
PH-212	General Physics with Calculus	70	5				
Spring Term							
CH-243	Organic Chemistry III	77	5				
ENGR-221	Electrical Circuit Analysis	66	4	REMOVE			
PH-213	General Physics with Calculus	70	5				
--	Western Culture elective		4				
				ENGR-201	Electrical Fundamentals	33	4
Social Processes Elective							
ANT-103; EC-201, 202; HST-101, 102, 103; PS-201, 204, 205, 225; PSY-110, 200, 205, 219, 231; SOC-204, 205, 206;							
Western Culture Elective							
ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-122, 208; HST-101, 102, 103, 201, 202, 203; PHL-102, 215; R-204;				ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-122, 208; HST-101, 102, 103, 132 , 201, 202, 203; PHL-102, 215; R-204;			
Optional: While not required for the A.S. degree, students may complete additional coursework at CCC that will meet requirements for the Bachelor of Science degree at Oregon							

State University. The Bachelor of Science degree requires the completion of one course from each category below.		
Cultural Diversity Elective		
ANT-231, 232; ENG-213, 252; GEO-110, 121; R-101, 102, 103, 210;		ANT-231, 232; ENG-213, 252; GEO-110 , 121; 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, 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, 241, 242 , 250, 251, 252, 253, 254, 255, 260, 270 ; MUS-105, 205, 206
Difference, Power, and Discrimination Elective		
HST-201, 202, 203; SOC-225		
Physical Education Elective		
HPE-295		
TOTAL CURRENT CREDITS:	107	TOTAL PROPOSED CREDITS:
College Contact		Telephone No.
E-Mail Address		Fax No.
Chief Academic Officer or CTE Dean Signature		Date 1/8/19



COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

College:	Clackamas Community College	Date:	
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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 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AS Area of Emphasis Title: Engineering – Chemical Engineering				Associate of Applied Science Area of Emphasis	103
Partnering Institution Name Oregon State University					

Last amendment approved on 01.20.17

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"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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 2018-19

[List entire curriculum as last approved]

PROPOSED CURRICULUM 2019-20

[List only course(s) to be amended]

Course	Title	Hours	Credits	Course	Title	Hours	Credits
Program Requirements – 1st 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				
WR-227	Technical Report Writing	44	4				
Spring Term							
CH-222	General Chemistry	77	5				
MTH-254	Vector Calculus	55	5				
--	Social Processes elective		4				
Summer Term							
CH-223	General Chemistry	77	5				
MTH-256	Differential Equations	44	4				
Program Requirements – 2nd Year							
Fall Term							
CH-241	Organic Chemistry I	77	5				
ENGR-211	Statics	44	4				
PH-211	General Physics with Calculus	70	5				
Winter Term							
CH-242	Organic Chemistry II	77	5				
MTH-253	Calculus III	55	5				
PH-212	General Physics with Calculus	70	5				
Spring Term							
CH-243	Organic Chemistry III	77	5				
ENGR-221	Electrical Circuit Analysis I	66	4	REMOVE			
PH-213	General Physics with Calculus	70	5				
--	Western Culture elective		4				
				ENGR-201	Electrical Fundamentals	33	4
Social Processes Elective							
ANT-103; EC-201, 202; HST-101, 102, 103; PS-201, 204, 205, 225; PSY-110, 200, 205, 219, 231; SOC-204, 205, 206;							
Western Culture Elective							
ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-122, 208; HST-101, 102, 103, 201, 202, 203; PHL-102, 215; R-204;				ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-122, 208; HST-101, 102, 103, 132 , 201, 202, 203; PHL-102, 215; R-204;			
Optional: While not required for the A.S. degree, students may complete additional coursework at CCC that will meet requirements for the Bachelor of Science degree at Oregon State University. The Bachelor of Science degree requires the completion of one course from each category below.							

Cultural Diversity Elective			
ANT-231, 232; ENG-213, 252; GEO-110, 121; R-101, 102, 103, 210;		ANT-231, 232; ENG-213, 252; GEO- 110 , 121; 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, 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, 241, 242 , 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, 204, 211, 212, 213, 234; ESR-171, 172, 173; Z-201, 202, 203;		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;			
TOTAL CURRENT CREDITS:		103	TOTAL PROPOSED CREDITS:
College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or CTE Dean Signature			Date 1/8/19



COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

College:	Clackamas Community College	Date:	
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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 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AS Area of Emphasis Title: Engineering – Civil Engineering				Associate of Applied Science Area of Emphasis	97
Partnering Institution Name Oregon State University					


Last amendment approved on 10.06.17

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"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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 2018-19 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2019-20 [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Program Requirements – 1st Year							
Fall Term							
CH-221	General Chemistry	77	5				
EC-201	Principles of Economics: MICRO	44	4	Move to Term 3			
ENGR-111	Introduction to Engineering	33	3				
MTH-251	Calculus I	55	5				
				WR-121	English Composition	44	4
Winter Term							
CH-222	General Chemistry	77	5				
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
WR-121	English Composition	44	4	Move to Term 1			
				CDT-103	Computer-Aided Drafting I	66	3
Spring Term							
COMM-111	Public Speaking	44	4				
ENGR-115	Engineering Graphics	33	3	REMOVE			
MTH-254	Vector Calculus	55	5				
WR-227	Technical Report Writing	44	4				
				EC-201	Principles of Economics: MICRO	33	4
Summer Term							
GIS-201	Geographic Information Systems	66	3				
MTH-256	Differential Equations	44	4				
Program Requirements – 2nd Year							
Fall Term							
ENGR-211	Statics	44	4				
PH-211	General Physics with Calculus	70	5				
--	Western Culture elective		4				
Winter Term							
ENGR-212	Dynamics	44	4				
MTH-253	Calculus III	55	5				
PH-212	General Physics with Calculus	70	5				
Spring Term							
ENGR-213	Strength of Materials	44	4				
ENGR-221	Electrical Circuit Analysis I	66	4	REMOVE			
PH-213	General Physics with Calculus	70	5				
				ENGR-201	Electrical Fundamentals	66	4
Western Culture Elective							
ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-122, 208; HST-101, 102, 103, 201, 202, 203; PHL-102, 215; R-204;				ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-122, 208; HST-101, 102, 103, 132 , 201, 202, 203; PHL-102, 215; R-204;			
Optional: While not required for the A.S. degree, students may complete additional coursework at CCC that will meet requirements for the Bachelor of Science degree at Oregon State University. The Bachelor of Science degree requires the completion of one course from each category below.							
Cultural Diversity Elective							

ANT-231, 232; ENG-213, 252; GEO-110, 121; R-101, 102, 103, 210;		ANT-231, 232; ENG-213, 252; GEO- 110 , 121; 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, 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, 241, 242 , 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, 204, 211, 212, 213, 234; ESR-171, 172, 173; Z-201, 202, 203;		BI-101, 102, 103, 175, 176, 177 , 204, 211, 212, 213, 234; ESR-171, 172, 173; Z-201, 202, 203;	
TOTAL CURRENT CREDITS:		97	TOTAL PROPOSED CREDITS:
College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer <i>or</i> CTE Dean Signature			Date 1/8/19



COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

College:	Clackamas Community College	Date:	
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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 7th & 8th digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
AS Area of Emphasis Title: Engineering – Construction Engineering Management				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 type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
		<i>Proposed Total Credits:</i>
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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 2018-19 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2019-20 [List only course(s) to be amended]			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
Program Requirements – 1st Year							
Fall Term							
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				
Winter Term							
BA-226	Business Law I	44	4				
EC-201	Principles of Economics: MICRO	44	4	Move to Term 3			
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
				CDT-103	Computer-Aided Drafting I	66	3
Spring Term							
EC-202	Principles of Economics: MACRO	44	4				
ENGR-115	Engineering Graphics	33	3	REMOVE			
— —	Biological Science elective		4				
— —	Literature and the Arts elective		4				
				EC-201	Principles of Economics: MICRO	44	4
Program Requirements – 2nd Year							
Fall Term							
ENGR-211	Statics	44	4				
HPE-295	Health & Fitness for Life	60	3				
PH-211	General Physics with Calculus	70	5				
Winter Term							
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				
Spring Term							
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				
Cultural Diversity Elective							
ANT-231, 232; ENG-213, 252; GEO-110, 121; R-101, 102, 103, 210;				ANT-231, 232; ENG-213, 252; GEO-440, 121; 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, 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, 241, 242, 250, 251, 252, 253, 254, 255, 260, 270; MUS-105, 205, 206;			
Biological Science Elective							
BI-101, 102, 103, 204, 211, 212, 213, 234;				BI-101, 102, 103, 175, 176, 177, 204, 211, 212, 213, 234;			

ESR-171, 172, 173; Z-201, 202, 203; 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.		ESR-171, 172, 173; Z-201, 202, 203; 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.				
Difference, Power, and Discrimination Elective						
HST-201, 202, 203; SOC-225;						
TOTAL CURRENT CREDITS:		92	TOTAL PROPOSED CREDITS:			
College Contact				Telephone No.		
E-Mail Address				Fax No.		
Chief Academic Officer <i>or</i> CTE Dean Signature					Date 1/8/19	



COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

College:	Clackamas Community College	Date:	
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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 7th & 8th digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
AS Area of Emphasis Title: Engineering – Ecological Engineering				Associate of Applied Science Area of Emphasis	103
Partnering Institution Name Oregon State University					

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> 102-103
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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 2018-19

[List entire curriculum as last approved]

PROPOSED CURRICULUM 2019-20

[List only course(s) to be amended]

Course	Title	Hours	Credits	Course	Title	Hours	Credits
Program Requirements – 1st 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				
--	Social Processes Elective		4	REMOVE			
				--	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 – 2nd 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				
Social Processes Elective							
ANT-103; EC-201, 202; HST-101, 102, 103; PS-201, 204, 205, 225; PSY-110, 200, 205, 219, 231; SOC-204, 205, 206;				REMOVE			
Western Culture Elective							
ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-122, 208; HST-101, 102, 103, 201, 202, 203; PHL-102, 215; R-204;							

Optional: While not required for the A.S. degree, students may complete additional coursework at CCC that will meet requirements for the Bachelor of Science Degree at Oregon State University. The Bachelor of Science degree requires the completion of one course from each category below		
Cultural Diversity Elective		
ANT-231, 232; ENG-213, 252; GEO-110, 121; R-101, 102, 103, 210;		ANT-231, 232; ENG-213, 252; GEO- 110 , 121; 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, 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, 241, 242 , 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, 204, 211, 212, 213, 234; ESR-171, 172, 173; Z-201, 202, 203;		REMOVE
Physical Education Elective		
HPE-295;		
TOTAL CURRENT CREDITS:	103	TOTAL PROPOSED CREDITS: 102-103
College Contact		Telephone No.
E-Mail Address		Fax No.
Chief Academic Officer or CTE Dean Signature		Date 1/8/19



COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

College:	Clackamas Community College	Date:	
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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 7th & 8th digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
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 01.20.17

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"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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 2018-19 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2019-20 [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Program Requirements – First Year							
Fall Term							
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				
Winter Term							
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				
Spring Term							
CS-260	Data Structures	44	4				
MTH-253	Calculus III	55	5				
WR-227	Technical Report Writing	44	4				
--	Social Processes elective		4				
Summer Term							
COMM-111	Public Speaking	44	4				
MTH-256	Differential Equations	44	4				
Program Requirements – Second Year							
Fall Term							
ENGR-221	Electrical Circuit Analysis I	33	4				
MTH-254	Vector Calculus	55	5				
PH-211	General Physics with Calculus	70	5				
Winter Term							
CS-250	Discrete Structures I	44	4	REMOVE			
ENGR-171	Digital Logic	66	4				
ENGR-222	Electrical Circuit Analysis II	33	4				
PH-212	General Physics with Calculus	70	5				
				MTH-231	Elements of Discrete Mathematics	44	4
Spring Term							
ENGR-223	Electrical Circuit Analysis III	33	4				
PH-213	General Physics with Calculus	70	5				
--	Western Culture elective		4				
Social Processes Elective							
ANT-103; EC-201, 202; HST-101, 102, 103; PS-201, 204, 205, 225; PSY-110, 200, 205, 219, 231; SOC-204, 205, 206;							
Western Culture Elective							
ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-122, 208; HST-101, 102, 103, 201, 202, 203; PHL-102, 215; R-204;				ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-122, 208; HST-101, 102, 103, 132, 201, 202, 203; PHL-102, 215; R-204;			
Optional: While not required for the A.S. degree, students may complete additional coursework at CCC that will meet							

requirements for the Bachelor of Science degree at Oregon State University. The Bachelor of Science degree requires the completion of one course from each category below		
Cultural Diversity Elective		
ANT-231, 232; ENG-213, 252; GEO-110, 121; R-101, 102, 103, 210;		ANT-231, 232; ENG-213, 252; GEO-110 , 121; 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, 250, 251, 252, 253, 254, 255, 260; MUS-105, 205, 206;		
Difference, Power, and Discrimination Elective		
HST-201, 202, 203; SOC-225;		
Biological Science Elective		
BI-101, 102, 103, 204, 211, 212, 213, 234; ESR-171, 172, 173; Z-201, 202, 203;		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;		
TOTAL CURRENT CREDITS:	102	TOTAL PROPOSED CREDITS:
College Contact		Telephone No.
E-Mail Address		Fax No.
Chief Academic Officer <i>or</i> CTE Dean Signature		Date 1/8/19



COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

College:	Clackamas Community College	Date:	
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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 7th & 8th digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
AS Area of Emphasis Title: Engineering – Energy Systems Engineering				Associate of Applied Science Area of Emphasis	98-99
Partnering Institution Name Oregon State University					

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"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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 2018-19

[List entire curriculum as last approved]

PROPOSED CURRICULUM 2019-20

[List only course(s) to be amended]

Course	Title	Hours	Credits	Course	Title	Hours	Credits
Program Requirements – First Year							
Fall Term							
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				
Winter Term							
CH-222	General Chemistry	77	5				
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
Spring Term							
COMM-111	Public Speaking	44	4				
EC-201	Principles of Economics: MICRO	44	4				
MTH-253	Calculus III	55	5				
WR-227	Technical Report Writing	44	4				
Summer Term							
MTH-256	Differential Equations	44	4				
Program Requirements – Second Year							
Fall Term							
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				
Winter Term							
ENGR-212	Dynamics	44	4				
ENGR-222	Electrical Circuit Analysis II	33	4				
PH-212	General Physics with Calculus	70	5				
Spring Term							
MTH-254	Vector Calculus	55	5				
PH-213	General Physics with Calculus	70	5				
--	Engineering elective		3-4				
--	Western Culture elective		4				
Engineering Elective							
ENGR-115, 213, 223;							
Western Culture Elective							
ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-122, 208; HST-101, 102, 103, 201, 202, 203; PHL-102, 215; R-204;				ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-122, 208; HST-101, 102, 103, 132 , 201, 202, 203; PHL-102, 215; R-204;			
Optional: While not required for the A.S. degree, students may complete additional coursework at CCC that will meet requirements for the Bachelor of Science degree at Oregon State University. The Bachelor of Science degree requires the completion of one course from each category below							
Cultural Diversity Elective							
ANT-231, 232; ENG-213, 252; GEO-110, 121; R-101, 102, 103, 210;				ANT-231, 232; ENG-213, 252; GEO- 110 , 121; 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, 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, 241, 242 , 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, 204, 211, 212, 213, 234; ESR-171, 172, 173; Z-201, 202, 203;	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;			
TOTAL CURRENT CREDITS:	98-99	TOTAL PROPOSED CREDITS:	
College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or CTE Dean Signature		Date	1/8/19



COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

College:	Clackamas Community College	Date:	
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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 7th & 8th digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
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 01.20.17

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"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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 2018-19

[List entire curriculum as last approved]

PROPOSED CURRICULUM 2019-20

[List only course(s) to be amended]

Course	Title	Hours	Credits	Course	Title	Hours	Credits
Program Requirements – First Year							
Fall Term							
ENGR-111	Introduction to Engineering	33	3				
MTH-251	Calculus I	55	5				
WR-121	English Composition	44	4				
--	Social Processes elective		4				
Winter Term							
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				
Spring Term							
CH-222	General Chemistry	77	5				
ENGR-115	Engineering Graphics	33	3				
MTH-254	Vector Calculus	55	5				
--	Western Culture elective		4				
Summer Term							
CH-223	General Chemistry	77	5				
COMM-111	Public Speaking	44	4				
MTH-256	Differential Equations	44	4				
Program Requirements – Second Year							
Fall Term							
CH-241	Organic Chemistry I	77	5				
ENGR-211	Statics	44	4				
PH-211	General Physics with Calculus	70	5				
Winter Term							
CH-242	Organic Chemistry II	77	5				
ENGR-212	Dynamics	44	4				
PH-212	General Physics with Calculus	70	5				
Spring Term							
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				
Social Processes Elective							
ANT-103; EC-201, 202; HST-101, 102, 103; PS-201, 204, 205, 225; PSY-110, 200, 205, 219, 231; SOC-204, 205, 206;							
Western Culture Elective							
ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-122, 208; HST-101, 102, 103, 201, 202, 203; PHL-102, 215; R-204;				ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-122, 208; HST-101, 102, 103, 132 , 201, 202, 203; PHL-102, 215; R-204;			
Optional: While not required for the A.S. degree, students may complete additional coursework at CCC that will meet requirements for the Bachelor of Science degree at Oregon State							

University. The Bachelor of Science degree requires the completion of one course from each category below.		
Cultural Diversity Elective		
ANT-231, 232; ENG-213, 252; GEO-110, 121; R-101, 102, 103, 210;		ANT-231, 232; ENG-213, 252; GEO-110, 121; 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, 250, 251, 252, 253, 254, 255, 260; MUS-105, 205, 206;		
Difference, Power, and Discrimination Elective		
HST-201, 202, 203; SOC-225;		
Biological Science Elective		
BI-101, 102, 103, 204, 211, 212, 213, 234; ESR-171, 172, 173; Z-201, 202, 203;		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;		
TOTAL CURRENT CREDITS:	110	TOTAL PROPOSED CREDITS:
College Contact		Telephone No.
E-Mail Address		Fax No.
Chief Academic Officer or CTE Dean Signature		Date 1/8/19



COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

College:	Clackamas Community College	Date:	
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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 7th & 8th digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
AS Area of Emphasis Title: Engineering – Industrial/Manufacturing				Associate of Applied Science Area of Emphasis	94
Partnering Institution Name Oregon State University					

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"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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 2018-19 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2019-20 [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Program Requirements – First 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				
Spring Term							
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				
Summer Term							
MTH-256	Differential Equations	44	4				
--	Social Processes elective		4				
Program Requirements – Second Year							
Fall Term							
ENGR-211	Statics	44	4				
PH-211	General Physics with Calculus	70	5				
--	Western Culture elective		4				
Winter Term							
ENGR-212	Dynamics	44	4				
MTH-253	Calculus III	55	5				
PH-212	General Physics with Calculus	70	5				
Spring Term							
ENGR-213	Strength of Materials	44	4				
ENGR-221	Electrical Circuit Analysis I	66	4	REMOVE			
PH-213	General Physics with Calculus	70	5				
				ENGR-201	Electrical Fundamentals	33	4
Social Processes Elective							
ANT-103; EC-201, 202; HST-101, 102, 103; PS-201, 204, 205, 225; PSY-110, 200, 205, 219, 231; SOC-204, 205, 206;							
Western Culture Elective							
ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-122, 208, 230; HST-101, 102, 103, 201, 202, 203; PHL-102, 215; R-204;				ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-122, 208, 230; HST-101, 102, 103, 132 , 201, 202, 203; PHL-102, 215; R-204;			
Optional: While not required for the A.S. degree, students may complete additional coursework at CCC that will meet requirements for the Bachelor of Science degree at Oregon State University. The Bachelor of Science degree requires the completion of one course from each category below.							
Cultural Diversity Elective							

ANT-231, 232; ENG-213, 252; GEO-110, 121; R-101, 102, 103, 210;		ANT-231, 232; ENG-213, 252; GEO- 110 , 121; 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, 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, 241, 242 , 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, 204, 211, 212, 213, 234; ESR-171, 172, 173; Z-201, 202, 203;		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;			
TOTAL CURRENT CREDITS:		94	TOTAL PROPOSED CREDITS:
College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or CTE Dean Signature			Date 1/8/19



COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

College:	Clackamas Community College	Date:	
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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 7th & 8th digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
AS Area of Emphasis Title: Engineering – Mechanical Engineering				Associate of Applied Science Area of Emphasis	98
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"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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 2018-19

[List entire curriculum as last approved]

PROPOSED CURRICULUM 2019-20

[List only course(s) to be amended]

Course	Title	Hours	Credits	Course	Title	Hours	Credits
Program Requirements – First 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				
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				
Spring Term							
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				
Summer Term							
MTH-256	Differential Equations	44	4				
Program Requirements – Second Year							
Fall Term							
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				
Winter Term							
ENGR-212	Dynamics	44	4				
ENGR-222	Electrical Circuit Analysis II	33	4				
PH-212	General Physics with Calculus	70	5				
Spring Term							
ENGR-213	Strength of Materials	44	4				
MTH-253	Calculus III	55	5				
PH-213	General Physics with Calculus	70	5				
Western Culture Elective							
ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-122, 208; HST-101, 102, 103, 201, 202, 203; PHL-102, 215; R-204;				ART-204, 205, 206; ENG-107, 108, 109, 201, 202, 204, 205, 250, 251, 253, 254, 255; GEO-122, 208; HST-101, 102, 103, 132 , 201, 202, 203; PHL-102, 215; R-204;			
Optional: While not required for the A.S. degree, students may complete additional coursework at CCC that will meet requirements for the Bachelors 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							
ANT-231, 232; ENG-213, 252; GEO-110, 121; R-101, 102, 103, 210;				ANT-231, 232; ENG-213, 252; GEO- 110 , 121; 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, 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, 241, 242 , 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, 204, 211, 212, 213, 234; ESR-171, 172, 173; Z-201, 202, 203;	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;			
TOTAL CURRENT CREDITS:	98	TOTAL PROPOSED CREDITS:	
College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or CTE Dean Signature		Date	1/8/19



COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

College:	Clackamas Community College	Date:	
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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 7th & 8th digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
AS Area of Emphasis Title: Engineering – Civil/Environmental				Associate of Applied Science Area of Emphasis	96-106
Partnering Institution Name Portland State University					

Last amendment approved on 06.02.17

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>	96-100
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>		
Suspension Effective Date:			

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 2018-19

[List entire curriculum as last approved]

PROPOSED CURRICULUM 2019-20

[List only course(s) to be amended]

Course	Title	Hours	Credits	Course	Title	Hours	Credits
Program Requirements – First Year							
Fall Term							
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				
Winter Term							
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
WR-122 or WR-227*	English Composition Technical Report Writing	44	4	REMOVE WR-122 Move WR-227 to Term 3			
--	Track Requirement		3-4	REMOVE			
				BI-204*	Elementary Microbiology	66	4
				CH-222	General Chemistry	77	5
Spring Term							
MTH-261	Linear Algebra	44	4	Move to Term 6			
--	Arts & Letters elective		4				
--	Track Requirement		3-5	REMOVE			
--	Track Requirement		3-5	REMOVE			
				COMM-111	Public Speaking	44	4
				MTH-254	Vector Calculus	55	5
				WR-227	Technical Report Writing	44	4
Program Requirements – Second Year							
Fall Term							
PH-211	General Physics with Calculus	70	5				
--	Track Requirement		3-5	REMOVE			
--	Track Requirement		3-5	REMOVE			
--	Track Requirement		3-5	REMOVE			
				ENGR-211	Statics	44	4
				GIS-201	Geographic Information Systems	66	3
				--	Social Science elective		4
Winter Term							
COMM-111	Public Speaking	44	4	Move to Term 3			
MTH-256	Differential Equations	44	4				
PH-212	General Physics with Calculus	70	5				
--	Track Requirement		3-5	REMOVE			
				CDT-103	Computer-Aided Drafting I	66	3
				ENGR-212	Dynamics	44	4
Spring Term							
PH-213	General Physics with Calculus	70	5				
--	Arts & Letters or Social Science elective		4				
--	Social Science elective		4	Move to Term 4			
--	Track Requirement		3-5	REMOVE			
--	Track Requirement (if necessary)		3-5	REMOVE			
				ENGR-213	Strength of Materials	44	4
				MTH-261	Linear Algebra	44	4
*Note: Environmental Track Only							
Arts & Letters							

ART-101, 102, 103, 204, 205, 206; ASL-101, 102, 103, 201, 202, 203; COMM-100, 112, 126, 140, 212, 218, 219, 227; ENG-104, 105, 106, 107, 108, 109, 116, 121, 130, 194, 195, 201, 202, 204, 205, 213, 214, 217, 218, 225, 226, 230, 240, 241, 242, 250, 251, 252, 253, 254, 255, 261, 266, 270, 295; FR-101, 102, 103, 201, 202, 203, 211, 212, 213; GER-101, 102, 103, 201, 202, 203; HUM-160, 233, 235, 240, 241, 242; MUS-105, 140, 141, 205, 206, 230; PHL-101, 102, 103, 205, 210, 215; SPN-101, 102, 103, 201, 202, 203, 211, 212, 213; WR-140, 220, 222, 240, 241, 242, 243, 244, 245, 246, 262, 263, 270;	All courses in ASL, COMM, ENG, FR, GER, HUM, PHL, SPN, WR . 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: ART-101, 102, 103, 205, 206; J-211; MUS-105, 141, 205, 206, 230; TA-101, 102;
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Social Science	
ANT-101, 102, 103, 231, 232; EC-200, 201, 202; GEO-100, 110, 121, 122, 130; HST-101, 102, 103, 130, 131, 132, 136, 137, 138, 201, 202, 203, 220; PS-200, 201, 203, 204, 205, 225, 297; PSY-101, 110, 200, 205, 214, 215, 219, 221, 231, 240; SSC-160, 233, 235, 240, 241, 242; SOC-204, 205, 206, 210, 225; WS-101;	All courses in ANT, EC, GEO, HST, PS, PSY, SOC, SSC, and WS .

Track Requirements


Civil Engineering

CDT-103	Computer-Aided Drafting I	66	3	Move to Term 5
CH-222	General Chemistry	77	5	Move to Term 2
ENGR-211	Statics	44	4	Move to Term 4
ENGR-212	Dynamics	44	4	Move to Term 5
ENGR-213	Strength of Materials	44	4	Move to Term 6
GIS-201	Geographic Information Systems	66	3	Move to Term 4
MTH-254	Vector Calculus	55	5	Move to Term 3

Environmental Engineering

BI-204	Elementary Microbiology	66	4	Move to Term 2
CDT-103	Computer-Aided Drafting I	66	3	Move to Term 5
CH-222	General Chemistry	77	5	Move to Term 2
ENGR-211	Statics	44	4	Move to Term 4
ENGR-212	Dynamics	44	4	Move to Term 5
ENGR-213	Strength of Materials	44	4	Move to Term 6
GIS-201	Geographic Information Systems	66	3	Move to Term 4
MTH-254	Vector Calculus	55	5	Move to Term 3

TOTAL CURRENT CREDITS:	96-106	TOTAL PROPOSED CREDITS:	96-100
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College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or CTE Dean Signature		Date	1/8/19



COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

College:	Clackamas Community College	Date:	
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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 7th & 8th digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
AS Area of Emphasis Title: Engineering – Electrical/Computer				Associate of Applied Science Area of Emphasis	96-106
Partnering Institution Name Portland State University					

Last amendment approved on 06.02.17

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>	101-106
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>		
Suspension Effective Date:			

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 2018-19

[List entire curriculum as last approved]

PROPOSED CURRICULUM 2019-20

[List only course(s) to be amended]

Course	Title	Hours	Credits	Course	Title	Hours	Credits
Program Requirements – First Year							
Fall Term							
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				
				Move to Term 3			
				CS-161	Computer Science I	44	4
Winter Term							
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
WR-122 Or WR-227*	English Composition or Technical Report Writing	44	4	Move to Term 4			
--	Track Requirement		3-4	REMOVE			
				CS-162	Computer Science II	44	4
				ENGR-171	Digital Logic	66	4
Spring Term							
MTH-261	Linear Algebra	44	4				
--	Arts & Letters elective		4	Move to Term 5			
--	Track Requirement		3-5	REMOVE			
--	Track Requirement		3-5	REMOVE			
				COMM-111	Public Speaking	44	4
				ENGR-271	Digital Systems	66	4
				WR-121	English Composition	44	4
Summer Term							
				WR-122 Or WR-227	English Composition or Technical Report Writing	44	4
Program Requirements – Second Year							
Fall Term							
PH-211	General Physics with Calculus	70	5				
--	Track Requirement		3-5	REMOVE			
--	Track Requirement		3-5	REMOVE			
--	Track Requirement		3-5	REMOVE			
				ENGR-221	Electrical Circuit Analysis I	33	4
				MTH-254*	Vector Calculus	55	5
				--	Arts & Letters elective		4
Winter Term							
COMM-111	Public Speaking	44	4	Move to Term 3			
MTH-256	Differential Equations	44	4				
PH-212	General Physics with Calculus	70	5				
--	Track Requirement		3-5	REMOVE			
				ENGR-222	Electrical Circuit Analysis II	33	4
				--	Social Science elective		4
Spring Term							
PH-213	General Physics with Calculus	70	5				
--	Arts & Letters or Social Science elective		4				
--	Social Science elective		4	Move to Term 6			
--	Track Requirement		3-5	REMOVE			

--	Track Requirement (if necessary)		3-5	
				ENGR-223 Electrical Circuit Analysis III 33 4
				MTH-253 Calculus III 55 5
Catalog Notes				
*Electrical Track only				
Arts & Letters or Social Science Electives				
Arts & Letters				
ART-101, 102, 103, 204, 205, 206; ASL-101, 102, 103, 201, 202, 203; COMM-100, 112, 126, 140, 212, 218, 219, 227; ENG-104, 105, 106, 107, 108, 109, 116, 121, 130, 194, 195, 201, 202, 204, 205, 213, 214, 217, 218, 225, 226, 230, 240, 241, 242, 250, 251, 252, 253, 254, 255, 261, 266, 270, 295; FR-101, 102, 103, 201, 202, 203, 211, 212, 213; GER-101, 102, 103, 201, 202, 203; HUM-160, 233, 235, 240, 241, 242; MUS-105, 140, 141, 205, 206, 230; PHL-101, 102, 103, 205, 210, 215; SPN-101, 102, 103, 201, 202, 203, 211, 212, 213; WR-140, 220, 222, 240, 241, 242, 243, 244, 245, 246, 262, 263, 270;			All courses in ASL, COMM, ENG, FR, GER, HUM, PHL, SPN, WR . 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: ART-101, 102, 103, 205, 206; J-211; MUS-105, 141, 205, 206, 230; TA-101, 102;	
Social Science				
ANT-101, 102, 103, 231, 232; EC-200, 201, 202; GEO-100, 110, 121, 122, 130; HST-101, 102, 103, 130, 131, 132, 136, 137, 138, 201, 202, 203, 220; PS-200, 201, 203, 204, 205, 225, 297; PSY-101, 110, 200, 205, 214, 215, 219, 221, 231, 240; SSC-160, 233, 235, 240, 241, 242; SOC-204, 205, 206, 210, 225; WS-101;			All courses in ANT, EC, GEO, HST, PS, PSY, SOC, SSC, and WS .	
Track Requirements				
Computer Engineering				
CS-161	Computer Science I	44	4	Move to Term 1
CS-162	Computer Science II	44	4	Move to Term 2
ENGR-171	Digital Logic	66	4	Move to Term 2
ENGR-221	Electrical Circuit Analysis I	33	4	Move to Term 5
ENGR-222	Electrical Circuit Analysis II	33	4	Move to Term 6
ENGR-223	Electrical Circuit Analysis III	33	4	Move to Term 7
ENGR-271	Digital Systems	66	4	Move to Term 3
MTH-253	Calculus III	55	5	Move to Term 7
Electrical Engineering				
CS-161	Computer Science I	44	4	Move to Term 1
CS-162	Computer Science II	44	4	Move to Term 2
ENGR-171	Digital Logic	66	4	Move to Term 2
ENGR-221	Electrical Circuit Analysis I	33	4	Move to Term 5
ENGR-222	Electrical Circuit Analysis II	33	4	Move to Term 6
ENGR-223	Electrical Circuit Analysis III	33	4	Move to Term 7
ENGR-271	Digital Systems	66	4	Move to Term 3
MTH-253	Calculus III	55	5	Move to Term 7
MTH-254	Vector Calculus	55	5	Move to Term 5
TOTAL CURRENT CREDITS:			96-106	TOTAL PROPOSED CREDITS: 101-106
College Contact				Telephone No.
E-Mail Address				Fax No.
Chief Academic Officer or CTE Dean Signature				Date 1/8/19



COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

College:	Clackamas Community College	Date:	
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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					
APPROVED Program Title	APPROVED CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			APPROVED Recognition Award	Current Credits
	6-digit CIP	7 th digit	8 th digit		
AS Area of Emphasis Title: Engineering - Mechanical				Associate of Applied Science Area of Emphasis	96-106
Partnering Institution Name Portland State University					


Last amendment approved on 06.02.17

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> 101
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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 2018-19 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2019-20 [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Program Requirements – First Year							
Fall Term							
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				
Winter Term							
ENGR-112	Engineering Programming	33	3				
MTH-252	Calculus II	55	5				
WR-122 Or WR-227	English Composition or Technical Report Writing	44	4	Move to Term 3			
--	Track Requirement		3-4	REMOVE			
				CH-222	General Chemistry	77	5
				ENGR-231	Properties of Materials	66	4
Spring Term							
MTH-261	Linear Algebra	44	4	Move to Term 4			
--	Arts & Letters elective		4	Move to Term 4			
--	Track Requirement		3-5	REMOVE			
--	Track Requirement		3-5	REMOVE			
				ENGR-115	Engineering Graphics	33	3
				COMM-111	Public Speaking	44	4
				MTH-254	Vector Calculus	55	5
				WR-122 Or WR-227	English Composition or Technical Report Writing	44	4
Program Requirements – Second Year							
Fall Term							
PH-211	General Physics with Calculus	70	5				
--	Track Requirement		3-5	REMOVE			
--	Track Requirement		3-5	REMOVE			
--	Track Requirement		3-5	REMOVE			
				ENGR-211	Statics	44	4
				MTH-261	Linear Algebra	44	4
				--	Arts & Letters elective		4
Winter Term							
COMM-111	Public Speaking	44	4	Move to Term 3			
MTH-256	Differential Equations	44	4				
PH-212	General Physics with Calculus	70	5				
--	Track Requirement		3-5	REMOVE			
				ENGR-212	Dynamics	44	4
				--	Social Science elective		4
Spring Term							
PH-213	General Physics with Calculus	70	5				
--	Arts & Letters or Social Science elective		4				
--	Social Science elective		4	Move to Term 5			
--	Track Requirement		3-5	REMOVE			
--	Track Requirement (if necessary)		3-5	REMOVE			
				ENGR-201	Electrical Fundamentals	33	4

				ENGR-213	Strength of Materials	44	4
Electives							
Arts & Letters							
ART-101, 102, 103, 204, 205, 206; ASL-101, 102, 103, 201, 202, 203; COMM-100, 112, 126, 140, 212, 218, 219, 227; ENG-104, 105, 106, 107, 108, 109, 116, 121, 130, 194, 195, 201, 202, 204, 205, 213, 214, 217, 218, 225, 226, 230, 240, 241, 242, 250, 251, 252, 253, 254, 255, 261, 266, 270, 295; FR-101, 102, 103, 201, 202, 203, 211, 212, 213; GER-101, 102, 103, 201, 202, 203; HUM-160, 233, 235, 240, 241, 242; MUS-105, 140, 141, 205, 206, 230; PHL-101, 102, 103, 205, 210, 215; SPN-101, 102, 103, 201, 202, 203, 211, 212, 213; WR-140, 220, 222, 240, 241, 242, 243, 244, 245, 246, 262, 263, 270;				All courses in ASL, COMM, ENG, FR, GER, HUM, PHL, SPN, WR. 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: ART-101, 102, 103, 205, 206; J-211; MUS-105, 141, 205, 206, 230; TA-101, 102;			
Social Science							
ANT-101, 102, 103, 231, 232; EC-200, 201, 202; GEO-100, 110, 121, 122, 130; HST-101, 102, 103, 130, 131, 132, 136, 137, 138, 201, 202, 203, 220; PS-200, 201, 203, 204, 205, 225, 297; PSY-101, 110, 200, 205, 214, 215, 219, 221, 231, 240; SSC-160, 233, 235, 240, 241, 242; SOC-204, 205, 206, 210, 225; WS-101;				All courses in ANT, EC, GEO, HST, PS, PSY, SOC, SSC, and WS.			
Track Requirements							
Mechanical Engineering							
CH-222	General Chemistry	77	5	Move to Term 2			
ENGR-115	Engineering Graphics	33	3	Move to Term 3			
ENGR-211	Statics	44	4	Move to Term 4			
ENGR-212	Dynamics	44	4	Move to Term 5			
ENGR-213	Strength of Materials	44	4	Move to Term 6			
ENGR-221	Electrical Circuit Analysis I	66	4	REMOVE			
MTH-254	Vector Calculus	55	5	Move to Term 3			
Recommended: One additional Arts & Letters/Social Science elective. 101 total credits at CCC.				REMOVE			
TOTAL CURRENT CREDITS:		96-106		TOTAL PROPOSED CREDITS:		101	
College Contact		Eric Lee		Telephone No.		6163	
E-Mail Address				Fax No.			
Chief Academic Officer or CTE Dean Signature						Date 1/8/19	



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>

College:	Clackamas Community College	Date	
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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 http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Auto Body/Collision Repair and Refinishing Technology	47.060			✓ AAS (90-108 credits)	93-94
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Related Programs: Auto Body Specialist CC Auto Body/Collision Repair and Refinishing Technology CPCC				<input type="checkbox"/> Certificate of Completion	

**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"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 91-92
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION 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.]

<i>CURRENT CURRICULUM 2018-19</i>				<i>PROPOSED CURRICULUM 2019-20</i>			
<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
Auto Body/Collision Repair and Refinishing Technology Associate of Applied Science Degree: 1st Year							
Fall							
AB-112	Collision Repair Welding I	48	2				
AB-113	Collision Repair I/Nonstructural	132	6				
ABR-125	Collision Repair/Refinishing I	132	6				
MTH-050 Or MTH-065	Technical Mathematics I or Algebra II	44	4				
Winter							
AB-123	Collision Repair Welding II	48	2				
AB-133	Collision Repair II/Structural	132	6				
ABR-127*	Collision Repair/Refinishing II	132	6				
Spring							
AB-222	Collision Repair III/Advanced Structural	132	6				
ABR-129	Collision Repair/Refinishing III	132	6				
--	Human Relations requirement (see page 82) (Recommended: COMM-100 or PSY-101)		3				
Auto Body/Collision Repair and Refinishing Technology Associate of Applied Science Degree: 2nd Year							
Fall							
AB-149	Collision Repair Estimating I	28	2				
AB-224	Collision Repair IV/Advanced Structural	132	6				
ABR-225	Production Shop Techniques	132	6				
--	PE/Health/Safety/First Aid requirement (see page 82) (Recommended: HE-252 or MFG-107)		3				
Winter							
AB-150	Collision Repair Computerized Estimating - Audatex	44	2				
AB-226	Collision Repair V/Advanced Structural	132	6				
AB-235	Collision Repair Welding III	48	2				
ABR-227	Restoration Practices	132	6				
Spring							

AB-151	Collision Repair Computerized Estimating - CCC ONE	44	2				
AB-280	Collision Repair/CWE	216	6				
ABR-142 Or ABR-152 Or ABR-162	Airbrush Art Custom Painting Fundamentals Basic Automotive Pinstriping	44	2	REMOVE			
WR-101 Or WR-121	Communication Skills: Occupational Writing or English Composition	33- 44	3-4				
* Successful completion of ABR-125 required.							
TOTAL CURRENT CREDITS:			93-94	TOTAL PROPOSED CREDITS:			91-92

College Contact	Dave Bradley	Telephone No.	3051
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature			Date 1/11/19



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>

College:	Clackamas Community College	Date	
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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 http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Clinical Laboratory Assistant Certificate				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Certificate Title: <u>Within</u> AAS Degree? <input type="checkbox"/> Yes** <input checked="" type="checkbox"/> No Basic Health Sciences Career Pathway	51.0802			<input checked="" type="checkbox"/> Career Pathway (12-44)	16

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

NEW PROGRAM APPROVED ON 08/03/17

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		Proposed Total Credits: 17
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	Reason for Suspension:	
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.]

<i>CURRENT CURRICULUM 2018-19</i>				<i>PROPOSED CURRICULUM 2019-20</i>			
<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
CLA-100	Introduction to Health Care	22	2				
MA-110	Medical Terminology	33	3	MA-110	Medical Terminology	44	4
MTH-065	Algebra II	44	4				
PSY-101	Human Relations	33	3				
WR-121	English Composition	44	4				
TOTAL <i>CURRENT CREDITS:</i>			16	TOTAL <i>PROPOSED CREDITS:</i>			17

College Contact	Allied Health	Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	12/18/18



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>

College:	Clackamas Community College	Date	
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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 http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title:				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Related Program: Basic Health Science Career Pathway				<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <u>Within</u> AAS Degree? <input type="checkbox"/> Yes** <input checked="" type="checkbox"/> No Clinical Laboratory Assistant Certificate	51.0802			<input checked="" type="checkbox"/> CC1 (45-60 credits)	45-47

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

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.]

<i>CURRENT CURRICULUM 2018-19</i>				<i>PROPOSED CURRICULUM 2019-20</i>			
[List entire curriculum as last approved]				[List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Clinical Laboratory Assistant Certificate Prerequisites							
The following prerequisites must be completed prior to the start of the student's cohort. Curriculum prerequisites and requirements may change yearly. To see prerequisites or requirements, please review the department website.							
MA-110	Medical Terminology	33	3	MA-110	Medical Terminology	44	4
MTH-050 Or MTH-065	Technical Mathematics I or Algebra II	44	4				
Clinical Laboratory Assistant Certificate							
Fall Term							
BI-120*	Introduction to Human Anatomy and Physiology	66	4				
CLA-100	Introduction to Health Care	22	2				
CLA-101	Clinical Laboratory Assistant Skills I	33	3				
CLA-101L	Clinical Laboratory Assistant Skills Lab I	33	1				
CLA-118	Phlebotomy for Clinical Laboratory Assistants	11	1				
CLA-118L	Phlebotomy for Clinical Laboratory Assistant Lab	33	1				
WR-101 Or WR-121	Communication Skills: Occupational Writing or English Composition	33-44	3-4				
Winter Term							
CLA-102	Clinical Laboratory Assistant Skills II	33	3				
CLA-102L	Clinical Laboratory Assistant Skills Lab II	33	1				
CLA-115	Laboratory Administrative Skills	22	2				
CLA-119	Laboratory/Phlebotomy Practicum	82	3				
CLA-130	Specimen Collection	22	1				
CS-120	Survey of Computing	55	4				
Spring Term							
CLA-103	Clinical Laboratory Assistant Skills III	33	3				
CLA-103L	Clinical Laboratory Assistant Skills Lab III	33	1				
CLA-120	Laboratory/Phlebotomy Practicum II	107	4				
CLA-125	Introduction to Clinical Research	22	2				

COMM-100** Or COMM-111 Or COMM-218	Basic Speech Communication or Public Speaking or Interpersonal Communication	33-44	3-4				
PSY-101	Human Relations	33	3				
*Additional options to meet biology requirement: pass BI-101 & BI-102 with a C or better or successfully complete the entire BI-231, BI-232, BI-233, Anatomy & Physiology series.							
Current First Aid card and Healthcare Provider level CPR (AHA or ASHI) card are required during practicums and must be taken prior to the first term practicum. All CLA students will be required to complete a criminal history background, provide proof of immunization, and take a drug test.							
Note: All clinical practicum courses are Pass/No Pass. CLA-130 may be taken for either a letter grade or pass/no pass option. All other courses are letter grades only and must be passed with a C grade or better in order to continue to the next term.							
Core curriculum is sequential and may not be taken out of order, with the exception of CLA-100 which may be taken prior to beginning the program. Curriculum is intended to be completed in one academic year.							
Individuals who have been found guilty of a felony or pleaded guilty to a felony may not be eligible for clinical practicum placement or be eligible to take the National exams.							
TOTAL CURRENT CREDITS:			45-47	TOTAL PROPOSED CREDITS:			

College Contact	health-sciences-questions@clackamas.edu	Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature			Date 1/3/19



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>

College:	Clackamas Community College	Date	
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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	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	<u>Current</u> Credits
(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)	6-digit CIP	7 th digit	8 th digit		
	AAS Title: Criminal Justice	43.0107			<input checked="" type="checkbox"/> AAS (90-108 credits)
Related Option: Corrections				<input type="checkbox"/> OPTION to AAS Degree	
Related Certificates:				<input type="checkbox"/> Certificate of Completion	

**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"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 90-92
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION 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.]

CURRENT CURRICULUM 2018-19 <small>[List entire curriculum as last approved]</small>				PROPOSED CURRICULUM 2019-20 <small>[List only course(s) to be amended]</small>			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Criminal Justice Associate of Applied Science Degree: 1st Year							
Fall Term							
CJA-110	Introduction to Law Enforcement	44	4	CJA-110	Introduction to Law Enforcement	33	3
CJA-122	Criminal Law	44	4				
MTH-050 or MTH-065 or MTH-098	Technical Mathematics I Algebra II College Math Foundations	44	4	REMOVE			
WR-121	English Composition	44	4				
				MTH-098	College Math Foundations	44	4
Winter Term							
CJA-101 or CJA-201	Criminology Juvenile Delinquency	44	4				
CJA-120	Judicial Process	33	3	CJA-120	Introduction to Courts	33	3
CJA-203	Crisis Intervention	33	3				
WR-122	English Composition	44	4				
				LIB-101	Introduction to Library Research	11	1
Spring Term							
CJA-130	Introduction to Corrections	33	3				
CJA-243	Drugs, Crime and the Law	33	3				
PSY-219	Introduction to Abnormal Psychology	44	4				
--	Criminal Justice program electives		3-4	REMOVE			
				HD-161	Multicultural Awareness	33	3
Criminal Justice Associate of Applied Science Degree: 2nd Year							
Fall Term							
CJA-170	Careers in Criminal Justice	33	3	Move to term 5			
CJA-210	Criminal Investigation I	33	3				
HE-163 or HE-205	Body & Drugs I: Introduction to Abuse & Addiction Youth Addictions	33	3	REMOVE			
HS-260	Victim Advocacy & Assistance	44	4	REMOVE			
--	Criminal Justice program electives		3-4				
				CJA-214	Intimate Partner Violence	33	3
				CJA-223	Criminal Justice Ethics	33	3
				HDF-260	Understanding Child Abuse and Neglect	44	4
Winter Term							
CJA-211	Criminal Investigation II	33	3				
CJA-222	Procedural Law	33	3				
CJA-223	Criminal Justice Ethics	33	3	Move to term 4			

CJA-280	Criminal Justice/Corrections/CWE	108	3	Move to term 6			
CWE-281	Cooperative Work Experience Seminar	16	0	REMOVE			
--	Criminal Justice program electives		3-4				
				CJA-170	Careers in Criminal Justice	33	3
				HPE-296	Health and Fitness for Criminal Justice	33	3
Spring Term							
CJA-200	Community Policing in a Culturally Diverse Society	44	4	CJA-200	Community Policing	33	3
CJA-212	Criminal Investigation III	33	3				
CJA-250	Reporting, Recording & Testifying	44	4				
CJA-281	Criminal Justice/Corrections/CWE	108	3	REMOVE			
CWE-281	Cooperative Work Experience Seminar	16	0	REMOVE			
--	Criminal Justice program electives		3-4	REMOVE			
				CJA-270	Criminal Justice Capstone	33	3
				CJA-280 Or HD-102	Criminal Justice/Corrections/CWE Or Service Learning Experience	108	3
Criminal Justice Program Electives							
Any ASL, CJA, FR, GER, HS, PHL, PS, PSY, SOC, or SPN course not included in the Criminal Justice Program, or any of the following:				Any CJA course not included in the Criminal Justice Program, or any of the following:			
COMM-126	Communication Between the Sexes	44	4	REMOVE			
COMM-140	Introduction to Intercultural Communication	44	4	REMOVE			
COMM-218	Interpersonal Communication	44	4	REMOVE			
COMM-227	Nonverbal Communication	44	4	REMOVE			
GRN-183	Death and Dying	33	3				
HDF-260	Understanding Child Abuse and Neglect	44	4	REMOVE			
HST-131	History of Crime & Punishment in Western Civilization	44	4				
TOTAL CURRENT CREDITS:			91-95	TOTAL PROPOSED CREDITS:			90-92

College Contact	Sharron Furno	Telephone No.	6224
E-Mail Address	sharron.furno@clackamas.edu	Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	11/27/18



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.

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

College:	Clackamas Community College	Date	
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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	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)	6-digit CIP	7 th digit	8 th digit		
AAS Title: Criminal Justice				<input type="checkbox"/> AAS	
Option Title** Corrections	43.0102			<input checked="" type="checkbox"/> OPTION to AAS (at least 70% of base AAS, 90-108 credits)	91
Related Certificate: Corrections Certificate				<input type="checkbox"/> Certificate of Completion	

**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"/> New Program++	<input checked="" type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 91-92
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	Reason for Suspension:	
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.]

CURRENT CURRICULUM 2018-19

[List entire curriculum as last approved]


PROPOSED CURRICULUM 2019-20

[List only course(s) to be amended]

Course	Title	Hours	Credits	Course	Title	Hours	Credits
Corrections Associate of Applied Science Degree: 1st Year							
Fall Term							
CJA-110	Introduction to Law Enforcement	44	4	CJA-110	Introduction to Law Enforcement	33	3
CJA-122	Criminal Law	44	4				
MTH-050 or MTH-065 or MTH-098	Technical Mathematics I Algebra II College Math Foundations	44	4	Remove			
WR-121	English Composition	44	4				
				MTH-098	College Math Foundations	44	4
Winter Term							
CJA-101 or CJA-201	Criminology Juvenile Delinquency	44	4				
CJA-120	Judicial Process	33	3	CJA-120	Introduction to Courts	33	3
CJA-203	Crisis Intervention	33	3				
WR-122	English Composition	44	4				
				LIB-101	Introduction to Library Research	11	1
Spring Term							
CJA-130	Introduction to Corrections	33	3				
CJA-243	Drugs, Crime and the Law	33	3				
PSY-219	Introduction to Abnormal Psychology	44	4				
--	Corrections program elective		3	Remove			
				HD-161	Multicultural Awareness	33	3
Corrections Association of Applied Science Degree: 2nd Year							
Fall Term							
CJA-170	Careers in Criminal Justice	33	3	Move to term 5			
CJA-252	Introduction to Restorative Justice	33	3				
HE-163 Or HE-205	Body & Drugs I: Introduction to Abuse & Addiction Youth Addictions	33	3	Remove			
HS-260	Victim Advocacy & Assistance	44	4	Remove			
				CJA-223	Criminal Justice Ethics	33	3
				HE-163	Body & Drugs I: Introduction to Abuse & Addiction	33	3
				HDF-260	Understanding Child Abuse and Neglect	44	4
--	Corrections program elective		3	--	Corrections program elective		3-4

Winter Term							
CJA-134	Correctional Institutions	33	3				
CJA-223	Criminal Justice Ethics	33	3	Move to term 4			
CJA-280	Criminal Justice/Corrections/CWE	108	3	Move to term 6			
CWE-281	Cooperative Work Experience Seminar	16	0	Remove			
HS-156	Conducting Human Service Interviews	33	3				
HS-211	Infectious Diseases and Harm Reduction	11	1				
--	Corrections program elective		3	Remove			
				CJA-170	Careers in Criminal Justice	33	3
				HPE-296	Health and Fitness for Criminal Justice	33	3
				HS-216	Group Counseling Skills	33	3
Spring Term							
CJA-232	Case Management	33	3				
CJA-250	Reporting, Recording & Testifying	44	4				
CJA-281	Criminal Justice/Corrections/CWE	108	3	Remove			
CWE-281	Cooperative Work Experience Seminar	16	0	Remove			
HS-216	Group Counseling Skills	33	3	Move to term 5			
--	Corrections program elective		3	Remove			
				CJA-215	Sexual Abuse and Human Trafficking	33	3
				CJA-270	Criminal Justice Capstone	33	3
				CJA-280 or HD-102	Criminal Justice/Corrections/CWE Or Service Learning Experience	108	3
Corrections Program Electives							
Any ASL, CJA, FR, GER, HS, PHL, PS, PSY, SOC, or SPN course not already included in the Corrections Program, or any of the following:				Any CJA course not already included in the Corrections Program, or any of the following:			
COMM-126	Communication Between the Sexes	44	4	Remove			
COMM-140	Introduction to Intercultural Communication	44	4	Remove			
COMM-218	Interpersonal Communication	44	4	Remove			
COMM-227	Nonverbal Communication	44	4	Remove			
GRN-183	Death and Dying	33	3				
HDF-260	Understanding Child Abuse and Neglect	33	4	Remove			

HST-131	History of Crime & Punishment in Western Civilization	44	4				
TOTAL CURRENT CREDITS:			91	TOTAL PROPOSED CREDITS:			91-92

College Contact	Ida Flippo	Telephone No.	3363
E-Mail Address	iflipp@clackamas.edu	Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	11/27/18



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>

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

<input type="checkbox"/> Ag, Food & Natural Resource Systems	<input checked="" 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 http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
	6-digit CIP	7 th digit	8 th digit		
AAS Title: Emergency Medical Technology- Paramedic AAS				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Certificate Title: <u>Within</u> AAS Degree? <input checked="" type="checkbox"/> Yes** <input type="checkbox"/> No Emergency Medical Technology	51.0904			<input checked="" type="checkbox"/> SSC1 Statewide Certificate (45-60 credits)	53

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

LAST AMENDMENT APPROVED ON 04/06/18

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		<i>Proposed</i> Total Credits: 54
<i>Proposed</i> AAS Title:		
<i>Proposed</i> OPTION Title:		
<i>Proposed</i> Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	Reason for Suspension:	
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.]

<i>CURRENT CURRICULUM 2018-19</i>				<i>PROPOSED CURRICULUM 2019-20</i>			
<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
Fall Term							
BI-231	Human Anatomy & Physiology I	66	4				
EMT-101*	Emergency Medical Technology Part I	77	5				
EMT-105	Introduction to Emergency Medical Services	33	3				
MA-110	Medical Terminology	33	3	MA-110	Medical Terminology	44	4
MTH-065	Algebra II	44	4				
Winter Term							
BI-232	Human Anatomy & Physiology II	66	4				
CJA-203	Crisis Intervention	33	3				
EMT-102	Emergency Medical Technology Part II	77	5				
EMT-109	Emergency Response Communication/Documentation	22	2				
WR-121	English Composition	44	4				
Spring Term							
BI-233	Human Anatomy & Physiology III	66	4				
COMM-111	Public Speaking	44	4				
EMT-107	EMT Rescue	49	3				
EMT-108	Emergency Response Patient Transportation	44	2				
PSY-101	Human Relations	33	3				
Catalog Notes							
*Student Petition Required							
Current Healthcare Provider level CPR (AHA or ASHI) are required; criminal history background check, proof of immunization, and students will be asked to take a drug test as arranged by the department							
TOTAL CURRENT CREDITS:			53	TOTAL PROPOSED CREDITS:			54

College Contact	EMT Program Director	Telephone No.	0696
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	1/3/19



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>

College:	Clackamas Community College	Date	
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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 http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Horticulture	1.0601			<input checked="" type="checkbox"/> AAS (90-108 credits)	97-101
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Related Certificates: Horticulture Certificate Irrigation Technician CP Plant Health Management CP				<input type="checkbox"/> Certificate of Completion	

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

LAST AMENDMENT APPROVED ON 01/19/2018

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		Proposed Total Credits: 94-98
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION 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.]

CURRENT CURRICULUM 2018-19 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2019-20 [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Horticulture Associate of Applied Science Degree: 1 st Year							
Fall Term1							
HOR-111	Horticulture Practicum/Fall	44	2				
HOR-115	Horticulture Safety	10	1				
HOR-122 Or HOR-224	Greenhouse I or Landscape Installation	44	3	Move to Term 5			
HOR-226	Plant Identification/Fall	44	4				
MTH-050 or MTH-065 or higher level math	Technical Mathematics I or Algebra II or higher level math	44	4-5				
				HOR-223	Applied Plant Science	44	4
Winter Term2							
HOR-130 Or HOR-131	Plant Propagation Theory or Tree & Shrub Pruning	33-44	3				
HOR-133	Horticulture Practicum/Winter	44	2				
HOR-216	Integrated Pest Management	33	3				
HOR-222	Horticultural Computer Applications	20	2				
HOR-227	Plant Identification/Winter	44	4				
Spring Term3							
HOR-112	Horticulture Career Exploration	24	2				
HOR-120	Pesticide Laws & Safety	12	1				
HOR-140	Soils	33	3				
HOR-142 Or HOR-145	Greenhouse II or Turf Installation & Maintenance	44	2-3	Move to Term 7			
HOR-143	Horticulture Practicum/Spring	44	2				
HOR-228	Plant Identification/Spring	44	4				
				WR-101 Or WR-121	Communication Skills: Occupational Writing or English Composition	33-44	3-4
Summer Term4							
HOR-281 Or HOR-280 and	Horticulture/CWE or Horticulture/CWE and	180	6				

HOR-282	Horticulture/CWE						
Horticulture Associate of Applied Science Degree: 2 nd Year							
Fall Term5							
HOR-223	Applied Plant Science	44	4	Move to Term 1			
HOR-235 Or HOR-236	Weed Identification or Insect Identification	20	2				
SPN-101	First-Year Spanish I	44	4				
WR-101 Or WR-121	Communication Skills: Occupational Writing or English Composition	33- 44	3-4	Move to Term 3			
--	Horticulture program electives		3				
				BA-285 Or COMM- 100	Human Relations in Business or Basic Speech Communication	33- 44	3-4
				HOR-122 Or HOR-224	Greenhouse I or Landscape Installation	44	3
Winter Term6							
BA-101	Introduction to Business	44	4				
BA-119	Project Management Practices	22	2				
HOR-230	Equipment Operation & Maintenance	44	2				
HOR-231	Irrigation Design	44	3				
HOR-237	Disease Identification	20	2				
--	Horticulture program electives		3				
Spring Term7							
BA-285 Or COMM-100	Human Relations in Business or Basic Speech Communication	33- 44	3-4	Move to Term 5			
HE-252**	First Aid/CPR/AED	33	3	REMOVE			
HOR-240	Irrigation Practices	44	3				
--	Horticulture program electives		8				
				HOR-142 Or HOR-145	Greenhouse II or Turf Installation & Maintenance	44	2-3
Horticulture Program Electives							
BA-223	Principles of Marketing	44	4				
HOR-113	Organic Farming Practicum/Fall	55	3				
HOR-122 Or HOR-224	Greenhouse I or Landscape Installation	44	3				
HOR-123	Landscape Maintenance	44	3				

HOR-124	Food Harvest	44	3				
HOR-125*	Food Production in the Willamette Valley	33	3				
HOR-126*	Landscape Water Features	20	1				
HOR-127*	Landscape Lighting	20	1				
HOR-128*	Landscape Stones & Pavers	20	1				
HOR-129*	Landscape Decks & Fences	20	1				
HOR-130 Or HOR-131	Plant Propagation Theory or Tree & Shrub Pruning	33-44	3				
HOR-134	Herb Growing & Gardening	20	1	REMOVE			
HOR-135	Propagation of Edible Plants	44	3				
HOR-136	Organic Farming Practicum/Winter	55	3				
HOR-141	Organic Farming Practicum/Spring	88	4				
HOR-142 Or HOR-145	Greenhouse II or Turf Installation & Maintenance	44	2-3				
HOR-146	Fruit & Berry Growing	44	3				
HOR-148	Farm Equipment	44	3				
HOR-211	Native Plant Identification	10	1				
HOR-212	Flower Arranger's Garden/Fall	44	2				
HOR-213*	Computer-Aided Landscape Design	44	3				
HOR-215	Herbaceous Perennials	44	3				
HOR-220	Plant Propagation/Fall	44	3				
HOR-225	Arboriculture I	33	3				
HOR-229*	Introduction to Landscape Design	44	3	HOR-229	Introduction to Landscape Design	44	3
HOR-232*	Commercial Floral Design	44	3				
HOR-235 Or HOR-236	Weed Identification or Insect Identification	20	2				
HOR-239	Tree Climber Training	24	1				
HOR-241*	Nursery Management	33	3				
HOR-244*	Environmental Landscape Design	44	3				
HOR-246	Organic Farming and Gardening	44	2				
HOR-250	Herb Growing and Gardening	20	2				
HOR-251	Herbal Products	20	1				
HOR-252	Kitchen Herbs	20	1				
HOR-260	Arboriculture II	33	3				
HOR-261	Tree Diagnostics	44	2				
HOR-281 Or HOR-280	Horticulture/CWE or Horticulture/CWE	180	6				

And HOR-282	Or Horticulture/CWE						
*Offered alternate years							
**Course may be waived with current CPR certification				REMOVE			
TOTAL CURRENT CREDITS:			97-101	TOTAL PROPOSED CREDITS:			94-98

College Contact	April Chastain	Telephone No.	3055
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature			Date 12/11/18



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.

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

College:	Clackamas Community College	Date	
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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 http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title:				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Related Certificates: Human Resource Management Essentials CP				<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <u>Within</u> AAS Degree? <input type="checkbox"/> Yes** <input checked="" type="checkbox"/> No Human Resource Management	52.1005			<input type="checkbox"/> CC1 (45-60 credits)	45-46

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

LAST AMENDMENT APPROVED ON 04/20/18

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input checked="" type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 45-47
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION 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

CURRENT CURRICULUM 2018-19

[List entire curriculum as last approved]

PROPOSED CURRICULUM 2019-20

[List only course(s) to be amended]

Course	Title	Hours	Credits	Number	Title	Hours	Credits
Human Resource Management Certificate							
Fall Term							
BA-101	Introduction to Business	44	4				
BA-104 Or MTH-065	Business Math or Algebra II	33-44	3-4				
BA-131	Introduction to Business Computing	44	4				
WR-121	English Composition	44	4				
Winter Term							
BA-208	Employee and Labor Relations	44	4				
BA-224	Human Resource Management	44	4				
BA-250	Small Business Management	33	3				
BA-285	Human Relations in Business	44	4				
Spring Term							
BA-226	Business Law I	44	4				
BA-229	Employment Law	44	4				
BA-254	Basic Compensation & Benefits	44	4				
BA-280	Business/CWE	216	3		REMOVE		
				--	Human Resource Management Program Electives		3-4
Catalog Notes							
Courses in this program can be applied to satisfy requirements in the Business AAS degree.							
				Human Resource Management Program Electives			
				Any Business Administration (BA) or Business Technology (BT) course not included in the Human Resource Management program.			
TOTAL CURRENT CREDITS:			45-46	TOTAL PROPOSED CREDITS:			45-47
College Contact	Michael Moiso			Telephone No.	3370		
E-Mail Address				Fax No.			
Chief Academic Officer or PTE Dean Signature					Date	12/5/18	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

<input checked="" 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	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)	6-digit CIP	7 th digit	8 th digit		
Parent AAS Title: Landscape Management AAS				<input type="checkbox"/> AAS	
Option Title** Arboriculture	01.0605	I	*	<input checked="" type="checkbox"/> OPTION to AAS (at least 70% of base AAS, 90-108 credits)	98-101
Certificate Title: <u>Within</u> AAS Degree? <input type="checkbox"/> Yes** <input type="checkbox"/> No				<input type="checkbox"/> Certificate of Completion	

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

LAST AMENDMENT APPROVED ON 1/19/2018

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		Proposed Total Credits: 94-97
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	Reason for Suspension:	
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.]

CURRENT CURRICULUM 2018-19 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2019-20 [List only course(s) to be amended]			
Course	Course Title	Hours	Credits	Course	Course Title	Hours	Credits
1st Year							
Fall Term1							
HE-252**	First Aid/CPR/AED	33	3				
HOR-115	Horticulture Safety	10	1				
HOR-226	Plant Identification/Fall	44	4				
HOR-236	Insect Identification	20	2				
MTH-050 or MTH-065 or higher	Technical Mathematics I or Algebra II or higher level of math	44	4-5	Move to Term 5			
				HOR-223	Applied Plant Science	44	4
Winter Term2							
HOR-131	Tree & Shrub Pruning	44	3				
HOR-216	Integrated Pest Management	33	3				
HOR-225	Arboriculture I	33	3	Move to Term 5			
HOR-230	Equipment Operation & Maintenance	44	2				
HOR-237	Disease Identification	20	2	Move to Term 6			
HOR-239	Tree Climber Training	24	1				
				HOR-222	Horticultural Computer Applications	20	2
				HOR-227	Plant Identification/Winter	44	4
Spring Term3							
BA-285 or COMM-100	Human Relations in Business or Basic Speech Communication	33-44	3-4				
HOR-120	Pesticide Laws & Safety	12	1				
HOR-228	Plant Identification/Spring	44	4				
HOR-261	Tree Diagnostics	44	2	Move to Term 7			
WR-121 or BA-214	English Composition or Business Communications	33-44	3-4				
				HOR-140	Soils	33	3
Summer Term4							
HOR-211	Native Plant Identification	10	1				
SPN-101	First-Year Spanish I	44	4	MOVE TO ELECTIVES			
				HOR-280	Horticulture/CWE (in Arboriculture field)	90	3
2nd Year							
Fall Term5							
HOR-123	Landscape Maintenance	44	3				
HOR-223	Applied Plant Science	44	4	Move to Term 1			
HOR-260	Arboriculture II	33	3	Move to Term 6			

HOR-262	Treework Practicum I	66	2				
				HOR-225	Arboriculture I	33	3
				MTH-050 or MTH-065 or higher	Technical Mathematics I or Algebra II or higher level of math	44	4-5
				--	Arboriculture program electives		3
Winter Term6							
BA-119	Project Management Practices	22	2				
HOR-222	Horticultural Computer Applications	20	2	Move to Term 2			
HOR-227	Plant Identification/Winter	44	4	Move to Term 2			
HOR-229* or HOR-244*	Introduction to Landscape Design or Environmental Landscape Design	44	3	HOR-229 or HOR-244*	Introduction to Landscape Design or Environmental Landscape Design	44	3
--	Arboriculture program electives		5	--	Arboriculture program electives		3
				HOR-237	Disease Identification	20	2
				HOR-260	Arboriculture II	33	3
Spring Term7							
HOR-140	Soils	33	3	Move to Term 3			
HOR-215	Herbaceous Perennials	44	3				
HOR-263	Plant Health Care Practicum	66	2				
HOR-280	Horticulture/CWE (in Arboriculture field)	90	3	Move to Term 4			
--	Arboriculture program electives		4	--	Arboriculture program electives		3
				HOR-261	Tree Diagnostics	44	2
				HOR-282	Horticulture/CWE (in Arboriculture field)	90	3
Summer Term8							
HOR-281	Horticulture/CWE (in Arboriculture field)	180	6				
HOR-282	Horticulture/CWE (in Arboriculture field)	90	3	Move to Term 7			
Arboriculture Program Electives							
BA-101	Introduction to Business	44	4				
HOR-134	Herb Growing & Gardening	20	1	REMOVE			
HOR-145	Turf Installation & Maintenance	44	2				
HOR-146	Fruit & Berry Growing	44	3				
HOR-213*	Computer-Aided Landscape Design	44	3				
HOR-224	Landscape Installation	44	3				
HOR-229* Or HOR-244	Introduction to Landscape Design or Environmental Landscape	44	3	HOR-229 Or HOR-244	Introduction to Landscape Design or Environmental Landscape	44	3

	Design				Design		
HOR-231	Irrigation Design	44	3				
HOR-235	Weed Identification	20	2				
HOR-240	Irrigation Practices	44	3				
HOR-264	Treework Practicum II (Aerial)	66	2				
SPN-102	First-Year Spanish II	44	4	REMOVE			
				SPN-101	First-Year Spanish I	44	4
Catalog Notes							
*Currently offered alternate years.							
**Course may be waived with current CPR certification							
TOTAL CURRENT CREDITS:			98-101	TOTAL PROPOSED CREDITS:			

College Contact	April Chastain	Telephone No.	3055
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	12/11/18



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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College:	Clackamas Community College	Date	
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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 http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title:				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Certificate Title: <i>Within</i> AAS Degree? <input type="checkbox"/> Yes** <input checked="" type="checkbox"/> No Geographic Information Systems (GIS) Technology	15.1102			<input checked="" type="checkbox"/> CC1 (45-60 credits)	47

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

LAST AMENDMENT APPROVED ON 2/2/18

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		Proposed Total Credits: 45
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION 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.]

CURRENT CURRICULUM 2018-19 <small>[List entire curriculum as last approved]</small>				PROPOSED CURRICULUM 2019-20 <small>[List only course(s) to be amended]</small>			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
First Term							
GEO-100 Or GEO-130	Introduction to Physical Geography or Introduction to Environmental Geography	44	4				
GIS-101	Maps and Geospatial Concepts	44	2				
GIS-236	Introduction to Programming for GIS	66	3				
MTH-050 Or MTH-065	Technical Mathematics I or Algebra II	44	4				
WR-121	English Composition	44	4	Move to Term 3			
				GIS-281	ArcGIS I	60	3
Second Term							
GIS-201	Introduction to Geographic Information Systems	60	3	REMOVE			
GIS-205	Cartography and Map Making	33	3				
GIS-237	Advanced Programming for GIS	66	3				
GIS-281	ArcGIS I	60	3	Move to Term 1			
GIS-286	Remote Sensing	60	3	Move to Term 3			
				GIS-240	Geospatial Database Development and Management	66	3
				GIS-282	ArcGIS II	66	3
				--	Human Relations requirement (see page 82)		3
Third Term							
GIS-232	Data Collection & Application	66	3	GIS-232	Data Collection & Application	44	2
GIS-280	GIS/CWE	108	3				
GIS-282	ArcGIS II	66	3	Move to Term 2			
--	Human Relations requirement (see page 82)		3	Move to Term 2			
--	Program Elective		3	REMOVE			
				GIS-238	GIS Web Mapping and Services	44	2
				GIS-286	Remote Sensing	60	3
				WR-121	English Composition	44	4

Program Electives					
FRP-244	Wilderness II: Basic Land Navigation (S-244)	33	3	REMOVE	
GIS-238	GIS Web Mapping and Services	44	2	Move to Term 3	
GIS-240	Geospatial Database Development and Management	66	3	Move to Term 2	
USP-201	Unmanned Aircraft Systems (UAS) Pilot	66	3	REMOVE	
USP-205	Unmanned Aircraft Systems (UAS) Applied Projects	44	2		
USP-210	Unmanned Aircraft Systems (UAS) Builder Lab	33	1		
TOTAL CURRENT CREDITS:			47	TOTAL PROPOSED CREDITS:	45

College Contact	Manufacturing Department	Telephone No.	3318
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature			Date 12/27/18



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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College:	Clackamas Community College	Date	
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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	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)	6-digit CIP	7 th digit	8 th digit		
	AAS Title: Landscape Management	1.0605			<input checked="" type="checkbox"/> AAS (90-108 credits)
Option Title** Arboriculture AAS				<input type="checkbox"/> OPTION to AAS Degree	
Related Certificates: Landscape Practices Certificate				<input type="checkbox"/> Certificate of Completion	

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

LAST AMENDMENT APPROVED ON 1/19/2018

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	Proposed Total Credits:	94-97
<input type="checkbox"/> Title Change for Program				
Proposed AAS Title:				
Proposed OPTION Title:				
Proposed Certificate Title:				
<input type="checkbox"/> SUSPENSION 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.]

CURRENT CURRICULUM 2018-19 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2019-20 [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Landscape Management Associate of Applied Science Degree: 1 st Year							
Fall Term1							
HOR-111	Horticulture Practicum/Fall	44	2				
HOR-115	Horticulture Safety	10	1				
HOR-123	Landscape Maintenance	44	3	Move to Term 5			
HOR-226	Plant Identification/Fall	44	4				
HOR-236	Insect Identification	20	2	Move to Term 5			
MTH-050 Or MTH-065 or higher level math	Technical Mathematics I Or Algebra II or higher level math	44	4-5				
				HOR-223	Applied Plant Science	44	4
Winter Term2							
HOR-131	Tree & Shrub Pruning	44	3				
HOR-133	Horticulture Practicum/Winter	44	2				
HOR-216	Integrated Pest Management	33	3				
HOR-222	Horticultural Computer Applications	20	2				
HOR-227	Plant Identification/Winter	44	4				
HOR-229* Or HOR-244*	Introduction to Landscape Design or Environmental Landscape Design	44	3	HOR-229 Or HOR-244*	Introduction to Landscape Design or Environmental Landscape Design	44	3
Spring Term3							
BA-285 Or COMM-100	Human Relations in Business or Basic Speech Communication	33-44	3-4				
HOR-112	Horticulture Career Exploration	24	2				
HOR-120	Pesticide Laws & Safety	12	1				
HOR-140	Soils	33	3				
HOR-143	Horticulture Practicum/Spring	44	2				
HOR-228	Plant Identification/Spring	44	4				
Summer Term4							
HOR-281 Or HOR-280 and HOR-282	Horticulture/CWE Or Horticulture/CWE And Horticulture/CWE	180	6				
Landscape Management Associate of Applied Science Degree: 2 nd Year							

Fall Term5							
HOR-223	Applied Plant Science	44	4	Move to Term 1			
HOR-224	Landscape Installation	44	3				
HOR-235	Weed Identification	20	2	HOR-235 Or HOR-236	Weed Identification Or Insect Identification	20	2
SPN-101	First-Year Spanish I	44	4				
--	Landscape Management program electives		3				
				HOR-123	Landscape Maintenance	44	3
Winter Term6							
BA-101	Introduction to Business	44	4	Move to Term 7			
BA-119	Project Management Practices	22	2				
HOR-230	Equipment Operation & Maintenance	44	2				
HOR-231	Irrigation Design	44	3				
HOR-237	Disease Identification	20	2				
WR-101 Or WR-121 Or BA-214	Communication Skills: Occupational Writing or English Composition or Business Communications	33-44	3-4				
Spring Term7							
HE-252**	First Aid/CPR/AED	33	3	REMOVE			
Choose two from the following (2 credits):							
HOR-126*	Landscape Water Features	20	1				
HOR-127*	Landscape Lighting	20	1				
HOR-128*	Landscape Stones & Pavers	20	1				
HOR-129*	Landscape Decks & Fences	20	1				
HOR-145	Turf Installation & Maintenance	44	2				
HOR-215	Herbaceous Perennials	44	3				
HOR-240	Irrigation Practices	44	3				
				BA-101	Introduction to Business	44	4
Landscape Management Program Electives							
BA-223	Principles of Marketing	44	4				
HOR-126* Or HOR-127* Or HOR-128* Or HOR-129*	Landscape Water Features or Landscape Lighting or Landscape Stones & Pavers or Landscape Decks & Fences	20	1				
HOR-134	Herb Growing & Gardening	20	1	REMOVE			
HOR-142	Greenhouse Crops/Bedding Plants	44	3	REMOVE			
HOR-146	Fruit & Berry Growing	44	3				
HOR-211	Native Plant Identification	10	1				

HOR-212	Flower Arranger's Garden/Fall	44	2				
HOR-213*	Computer-Aided Landscape Design	44	3				
HOR-220	Plant Propagation/Fall	44	3				
HOR-225	Arboriculture I	33	3				
HOR-229* Or HOR-244*	Introduction to Landscape Design or Environmental Landscape Design	44	3	HOR-229 Or HOR-244*	Introduction to Landscape Design or Environmental Landscape Design	44	3
HOR-239	Tree Climber Training	24	1				
HOR-246	Organic Farming and Gardening	44	2				
HOR-260	Arboriculture II	33	3				
HOR-261	Tree Diagnostics	44	2				
WET-109	Backflow Assembly Operation and Testing	66	4				
				HOR-290	Special Topics in Horticulture	66	3
*Offered alternate years							
**Course may be waived with current CPR certification				REMOVE			
TOTAL CURRENT CREDITS:			99-102	TOTAL PROPOSED CREDITS:			94-97

College Contact	April Chastain	Telephone No.	3055
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	12/11/18



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>

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

<input type="checkbox"/> Ag, Food & Natural Resource Systems	<input checked="" 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 http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title:				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <i>Within</i> AAS Degree? <input type="checkbox"/> Yes** <input checked="" type="checkbox"/> No Medical Assistant	51.0801			<input checked="" type="checkbox"/> CC1 (45-60 credits)	47

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

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input checked="" type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 49
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION 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.]

CURRENT CURRICULUM 2018-19 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2019-20 [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Medical Assistant Certificate Prerequisite to Acceptance							
MA-110	Medical Terminology	33	3	MA-110	Medical Terminology	44	4
WR-101 Or WR-121	Communication Skills: Occupational Writing or English Composition	33- 44	3-4	WR-101 Or WR-121 (preferred)	Communication Skills: Occupational Writing or English Composition	33- 44	3-4
First Term							
BI-120 Or BI-101 & BI-102 Or BI-231 & BI-232 & BI-233	Introduction to Human Anatomy and Physiology or General Biology; Cellular Biology and General Biology; Animal Systems or Human Anatomy & Physiology I and Human Anatomy & Physiology II and Human Anatomy & Physiology III	66	4				
MA-112	Medical Office Practices	44	4				
MA-145	Insurance & Health Information Management	44	4	MA-145	Insurance & Health Information Management	55	5
				PSY-101	Human Relations	33	3
Second Term							
MA-116	Introduction to Medications	44	4				
MA-117	Clinical Lab Procedures I	11	1				
MA-117L	Clinical Lab Procedures I Lab	33	1				
MA-118	Examination Room Techniques	44	4	MA-118	Examination Room Techniques	55	5
MA-118L	Examination Room Techniques Lab	33	1				
MTH-054	Medication Calculations for Medical Assistants	44	4				
PSY-101	Human Relations	33	3	Move to Term 1			
Third Term (Weeks 1-5)							
MA-115	Phlebotomy for Medical Assistants	11	1				
MA-115L	Phlebotomy for Medical Assistants Lab	33	1				

MA-121	Clinical Lab Procedures II	11	1				
MA-121L	Clinical Lab Procedures II Lab	33	1				
PSY-215	Introduction to Developmental Psychology	44	4				
Third Term (Weeks 6-11)							
MA-119**	Medical Assistant Practicum	253	9				
Catalog Notes							
<p>**To meet graduation requirements in addition to successful completion of courses, the MA student is required to:</p> <ul style="list-style-type: none"> • Participate in an unpaid, supervised externship in an ambulatory care setting. • Perform 20 hours of public health-related community service. • Register for the CMA (AAMA) certification exam. <p>Note: All clinical/practicum courses are Pass/No Pass. All other courses are letter graded and must be passed with C or better. All related instruction courses may be taken prior to entering the MA program.</p> <p>Core curriculum is sequential and may not be taken out of order. Core curriculum is intended to be completed over three consecutive terms in one academic year.</p> <p>For the Certified Medical Assistant (CMA) exam, direct inquiries to: AAMA Certification Department at www.aama-ntl.org or by phone 800-228-2262.</p>							
TOTAL CURRENT CREDITS:			47	TOTAL PROPOSED CREDITS:			49

College Contact	Karen Maynard	Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	1/15/19



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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College:	Clackamas Community College	Date	
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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 http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title:				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Certificate Title: <i>Within</i> AAS Degree? <input type="checkbox"/> Yes** <input checked="" type="checkbox"/> No Organic Farming	1.0304			<input checked="" type="checkbox"/> CC1 (45-60 credits)	57-60

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

LAST AMENDMENT APPROVED ON 1/19/2018

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		Proposed Total Credits: 56-59
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION 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.]

CURRICULUM AMENDMENT							
<i>CURRENT CURRICULUM 2018-19</i> [List entire curriculum as last approved]				<i>PROPOSED CURRICULUM 2019-20</i> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Fall Term							
HOR-113	Organic Farming Practicum/Fall	55	3				
HOR-124	Food Harvest	44	3				
HOR-235	Weed Identification	20	2				
HOR-236	Insect Identification	20	2				
WR-101 Or WR-121	Communication Skills: Occupational Writing or English Composition	33-44	3-4				
--	Organic Farming program electives		2				
Winter Term							
HOR-135	Propagation of Edible Plants	44	3				
HOR-136	Organic Farming Practicum/Winter	55	3				
HOR-216	Integrated Pest Management	33	3				
HOR-237	Disease Identification	20	2				
MTH-050 Or MTH-065 Or higher	Technical Mathematics I or Algebra II or higher level math	44-55	4-5				
Spring Term							
HOR-120	Pesticide Laws & Safety	12	1	REMOVE			
HOR-140	Soils	33	3				
HOR-141	Organic Farming Practicum/Spring	88	4				
HOR-148	Farm Equipment	44	3				
--	Organic Farming program electives		4				
Summer Term							
BA-285 Or COMM-100	Human Relations in Business or Basic Speech Communication	33-44	3-4				
HOR-146	Fruit & Berry Growing	44	3				
HOR-284	Organic Farming - Campus Farm/CWE	108	3				
HOR-285	Organic Farming/CWE	90	3				
Organic Farming Program Electives							
BA-101	Introduction to Business	44	4				

BA-223	Principles of Marketing	44	4				
HOR-125*	Food Production in the Willamette Valley	33	3				
HOR-134	Herb Growing & Gardening	20	1	REMOVE			
HOR-231	Irrigation Design	44	3				
HOR-240	Irrigation Practices	44	3				
HOR-246	Organic Farming and Gardening	44	2				
HOR-250	Herb Growing and Gardening	20	2				
HOR-251	Herbal Products	20	1				
HOR-252	Kitchen Herbs	20	1				
*Offered alternate years							
TOTAL CURRENT CREDITS:			57-60	TOTAL PROPOSED CREDITS:			56-59

College Contact	April Chastain	Telephone No.	3055
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	12/11/18



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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College:	Clackamas Community College	Date	
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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 http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title:				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Certificate Title: <i>Within</i> AAS Degree? <input type="checkbox"/> Yes** <input checked="" type="checkbox"/> No Retail Management	52.1803			<input checked="" type="checkbox"/> SSC Statewide Certificate (12-30 credits)	29-30

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

LAST AMENDMENT APPROVED ON 5/19/17

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		Proposed Total Credits: <input type="text"/>
Proposed AAS Title:	<input type="text"/>	
Proposed OPTION Title:	<input type="text"/>	
Proposed Certificate Title:	<input type="text"/>	
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i> <input type="text"/>	
Suspension Effective Date:	<input type="text"/>	

++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.]

CURRENT CURRICULUM 2018-19 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2019-20 [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Fall Term							
BA-131	Introduction to Business Computing	44	4				
BA-206	Management Fundamentals	44	4				
BA-223	Principles of Marketing	44	4				
Winter Term							
BA-214 Or BA-205	Business Communications or Business Communications with Technology	33-44	3-4				
BA-224	Human Resource Management	44	4				
BA-285	Human Relations in Business	44	4				
Spring Term							
BA-217	Budgeting for Managers	33	3				
BA-249	Retailing	33	3				
Catalog Notes							
Note: This certificate is designed to be completed in less than one year.							
Most courses in this program can be applied to partially satisfy elective requirements in the Business Management certificate.							
TOTAL CURRENT CREDITS:			29-30	TOTAL PROPOSED CREDITS:			

College Contact	Thomas Frank	Telephone No.	3660
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	1/14/19

Program

Horticulture AAS

Horticulture CC

Landscape Management AAS

Landscape Management AAS - Arboriculture Option

Landscape Practices CC

Organic Farming CC

Plant Health Management CPCC

Horticulture

Associate of Applied Science Degree

PROGRAM CODE: AAS.HORT1

Upon successful completion of this program, students should be able to:

- o demonstrate a broad range of skills in the production and maintenance of plants, including: safe use of tools and equipment, propagation from seeds and cuttings, landscape maintenance activities, growing in a greenhouse environment, and vegetable bed preparation;
- o identify common woody plants in the landscape;
- o recognize and evaluate key pests and propose solutions based on IPM strategies;
- o use a basic understanding of plant biology and soil science to make sound decisions in the production and maintenance of plants;
- o display effective decision making, time management and project management skills in the horticulture industry;
- o communicate effectively with co-workers and customers through speaking, writing and computer technology.
- o **pass the ODA Pesticide Laws & Safety exam, and an applicator exam.**

Horticulture

Certificate

PROGRAM CODE: CC.HORT

Upon successful completion of this program, students should be able to:

- o demonstrate a broad range of skills in the production and maintenance of plants, including: safe use of tools and equipment, propagation from seeds and cuttings, landscape maintenance activities, growing in a greenhouse environment, and vegetable bed preparation;
- o identify common woody plants in the landscape;
- o implement IPM strategies in the horticulture industry;
- o use a basic understanding of plant biology and soil science to make sound decisions in the production and maintenance of plants;
- o effectively communicate with co-workers and customers through speaking, writing, and computer technology.
- **pass the ODA Pesticide Laws & Safety exam.**

Landscape Management

Associate of Applied Science Degree

PROGRAM CODE: AAS.LANDSCAPEMGMT

Upon successful completion of this program, students should be able to:

- o demonstrate competency in sustainable landscape maintenance and installation activities, including: safe use of tools and equipment, operation of irrigation systems, pruning and training techniques, turf maintenance, hardscape installation and reading/installing from a design plan;
- o identify common woody and herbaceous plants in the landscape;
- o recognize and evaluate key pests in the landscape and propose solutions based on IPM strategies;

- o use a basic understanding of plant biology and soil science to make sound decisions in the design and maintenance of landscapes;
- o display effective decision making, time management and project management skills in the landscape industry environment;
- o effectively communicate with co-workers and customers through speaking, writing and computer technology.
- o ~~pass the ODA Pesticide Laws & Safety exam, and an applicator exam;~~
- o ~~pass NALP's Landscape Industry Certified Technician-Exterior test for Ornamental Maintenance;~~

Landscape Management, Arboriculture Option

Associate of Applied Science Degree

PROGRAM CODE: AAS.LANDMGMTARBOR

This degree prepares students for entry-level positions in commercial arboriculture and urban forestry, while enhancing their ability to move into management positions. Students will gain practical expertise in the establishment and caring for landscape trees, including planting, pruning, pest management, tree diagnostics, and operating industry standard equipment. Additionally, students will learn skills in communicating with customers, both orally and through report writing. ~~Students completing this program and some additional work experience, would be qualified to sit for the International Society of Arboriculture's Certified Arborist exam.~~

Sustainable practices, such as the use of Integrated Pest Management, low water use landscapes, and techniques that protect and care for the soil are emphasized throughout the program. Students use industry standard equipment and practices in the care of CCC's trees and shrubs.

Students may begin this program any term, but some courses have prerequisites, which must be taken first. Following the course offerings in the order listed is not required, but will allow for completion in a two year period.

PROGRAM OUTCOMES

Upon successful completion of this program, students should be able to:

- o demonstrate competency with the use of standard arboriculture equipment, including: climbing gear, chainsaw, chipper, hydraulic sprayer, truck and trailer;
- o identify common woody and herbaceous plants in the landscape;
- o recognize and identify key biotic and abiotic disorders in trees;
- o perform site assessments, including: plant health inspections of key plants, hazard tree identification, and water audit interpretations;
- o effectively communicate with co-workers and customers through speaking, report writing and computer technology.
- o ~~pass the International Society of Arboriculture's Certified Arborist exam;~~
- o ~~pass the ODA Pesticide Laws & Safety exam, and the ODA Ornamental & Turf Insecticide/Fungicide exam.~~

Landscape Practices

Certificate

PROGRAM CODE: CC.LANDSCAPEPRAC

Upon successful completion of this program, students should be able to:

- o demonstrate competency in sustainable landscape maintenance and installation activities, including: safe use of tools and equipment, operation of irrigation systems, pruning and training techniques, turf maintenance, hardscape installation and reading/installing from a design plan;
- o identify common woody and herbaceous plants in the landscape;
- o recognize key pests in the landscape and follow IPM strategies;
- o use a basic understanding of soil science to make sound decisions in the maintenance of landscapes.
- o **pass the ODA Pesticide Laws & Safety exam.**

Organic Farming

Certificate

PROGRAM CODE: CC.ORGANICFARM

This certificate focuses on an ecological systems approach to sustainable farming principles and practices which are suitable for local urban market farming. Many classes have a lab component, which provides students with the opportunity to gain a practical, working knowledge of small-scale, organic farming and marketing practices. Production methods for vegetables, grain, **and fruit and aquaponics** are covered. Students may begin this program any term.

PROGRAM OUTCOMES

Upon successful completion of this program, students should be able to:

- o apply sustainable, organic methods in the planning, planting, management and harvesting of food crops;
- o select and properly use farm equipment that is appropriate for a given scale and system of farming;
- o implement organic IPM strategies in orchards and on small scale vegetable and berry farms;
- o use a basic understanding of soil science and irrigation systems to make ecologically sound decisions in the production of food crops;
- o write a business plan and identify the various regulations that impact an organic food producer;
- o effectively communicate with co-workers and customers through speaking, writing and computer technology;
- o **pass the ODA Pesticide Laws & Safety exam.**

Plant Health Management

Career Pathway Certificate

PROGRAM CODE: CC.PLANTHEALMGT

Upon successful completion of this program, students should be able to:

- o **pass the ODA Pesticide Laws & Safety exam, and a Commercial Pesticide Applicator exam;**
- o recognize and evaluate key pests in the landscape and propose solutions based on IPM strategies.