



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: August 08, 2017
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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 (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	<u>Current</u> & Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AS Area of Emphasis Title: Engineering	14.0101	D	M	Associate of Applied Science Area of Emphasis	104
Partnering Institution Name Oregon Institute of Technology (Oregon Tech)					

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Agreement	<input checked="" type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
		Proposed Total Credits:
<input type="checkbox"/> SUSPENSION of Program	Reason for Suspension:	
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 2016-17 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2017-18 [List only course(s) to be amended]			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
Program Requirements – 1st Year							
Fall Term							
CH-221	General Chemistry	77	5				
COMM-111	Public Speaking	44	4				
MTH-251	Calculus I	55	5				
WR-121	English Composition	44	4				
Winter Term							
COMM-219	Small Group Communications	44	4		REMOVE		
CH-222	General Chemistry	77	5				
MTH-252	Calculus II	55	5				
WR-122	English Composition	44	4				
Spring Term							
WR-227	Technical Writing	44	4				
--	Social Science Elective		4				
--	Track Requirement		8				
Summer Term							
--	Track Requirement		8	----	Track Requirement		12
Program Requirements – 2nd Year							
Fall Term							
ENGR-221	Electrical Circuit Analysis	66	4				
MTH-254	Vector Calculus	55	5				
PH-211	General Physics with Calculus	70	5				
Winter Term							
ENGR-222	Electrical Circuit Analysis II	66	4				
MTH-256	Differential Equations	44	4				
PH-212	General Physics with Calculus	70	5				
Spring Term							
ENGR-223	Electrical Circuit Analysis III	66	4		REMOVE		
MTH-261	Linear Algebra	44	4		REMOVE		
PH-213	General Physics with Calculus	70	5				
--	Track Requirement		4	--	Track Requirement		12
Track Requirements							
Electrical							
CS-161	Computer Science I	44	4				
ENGR-171	Digital Logic	66	4				
ENGR-271	Digital Systems	66	4				
MTH-253	Calculus III	55	5				
				COMM-219	Small Group Communications	44	4
				ENGR-223	Electrical Circuit Analysis III	66	4
				MTH-261	Linear Algebra	44	4
				----	Humanities or Social Science Electives	33	3
Mechanical							
				CDT-103	Computer Aided Drafting I	33	3

				EC-201 or EC-202	Principles of Economics MICRO EC-202 Principles of Economics MACRO	44	4
				ENGR-111	Introduction to Engineering	33	3
				ENGR-112	Engineering Programming	33	3
				ENGR-211	Statics	44	4
				ENGR-212	Dynamics	44	4
				ENGR-213	Strength of Materials	44	4
				ENGR-231	Properties of Materials	44	4
				----	Humanities Electives	33	3

Renewable Energy

EC-201 or EC-202	Principles of Economics: MICRO Principles of Economics: MACRO	44	4				
ENGR-211	Statics	44	4				
GIS-201	Introduction to Geographical Information System	33	3		REMOVE		
MTH-243	Statistics I	44	4				
MTH-244	Statistics II	44	4				
RET-200	Renewable Energy Systems	44	4				
				COMM-219	Small Group Communications	44	4
				ENGR-223	Electrical Circuit Analysis III	66	4
				MTH-261	Linear Algebra	44	4

Social Science Electives

ANT-101, 102, 103, 231, 232; EC-200, 201, 202; GEO-100, 110, 121, 122, 130, 230; HST-101, 102, 103, 130, 131, 132, 136, 137, 138, 201, 202, 203, 210, 220, 239, 200, 201, 203, 204, 205, 206, 225, 297; PSY-101, 110, 200, 205, 214, 215, 219, 221, 231, 240; SSC-160, 170, 171, 172, 180, 181, 182, 233, 235, 240, 241, 242; SOC-204, 205, 206, 210, 225; WS-101

Recommended: 2 Additional Arts & Letters/Humanities Electives

ART-101, 102, 103, 115, 116, 117, 131, 132, 133, 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-105, 126, 140, 212, 218, 219, 227; DMC-195; ENG-100, 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, 275; FR-201, 202, 203, 211; GER-201, 202, 203; HUM-160, 170, 171, 172, 180, 181, 182, 233, 234, 240, 241, 242; J-211; MUS-105, 111, 112, 113, 205, 206, 211, 212, 213; PHL-101, 102, 103, 205, 210, 213, 215; SPN-201, 202, 203; TA-101, 102, 103, 141, 142, 143; WR-220, 241, 242, 243, 244, 245, 248, 262, 263, 265, 270

TOTAL CURRENT CREDITS:	104	TOTAL PROPOSED CREDITS:	104
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College Contact	Eric Lee	Telephone No.	503-594-6163
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E-Mail Address	elee@clackamas.edu	Fax No.	n/a
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Chief Academic Officer or CTE Dean Signature		Date	8/9/17
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