

Oregon Department of Community Colleges
and Workforce Development
255 Capitol Street NE
Salem, OR 97310-0203

Office of Educational Improvement & Innovation

Phone: (503) 378-3600
FAX: (503) 378-5156



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: 12/20/17
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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					
APPROVED Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	APPROVED CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			APPROVED Recognition Award	Current Credits
	6-digit CIP	7 th digit	8 th digit		
AAS Title: Auto Body/Collision Repair and Refinishing Technolgy	47.0603			✓ Associate of Applied Science (AAS) Degree	92-94
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <i>Within</i> 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

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: 93-94
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 2017-18 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2018-19 [List only course(s) to be amended]			
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							
First Term							
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 Algebra II	44	3-4	MTH-050 or MTH-065	Technical Mathematics I Algebra II	44	4
Second Term							
AB-123	Collision Repair Welding II	48	2				
AB-133	Collision Repair II/Structural	132	6				
ABR-127	Collision Repair Refinishing II*	132	6				
Third Term							
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							
Fourth Term							
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				
Fifth Term							
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				
Sixth Term							

AB-151	Collision Repair Computerized Estimating – CCCONE	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				
WR-101 or WR-121	Communication Skills: Occupational Writing English Composition	33-44	3-4				
*Program requirements: Current enrollment in or successful completion of AB-112 Collision Repair Welding I and ABR-125 Collision Repair Refinishing I must be completed or in progress prior to enrolling in ABR-127 Collision Repair Refinishing							
TOTAL CURRENT CREDITS:			92-94	TOTAL PROPOSED CREDITS:			93-94

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	

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COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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College:	Clackamas Community College	Date	12/06/17
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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

APPROVED Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	APPROVED CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			APPROVED Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
AAS Title: Automotive Service Technology	47.0604			<input checked="" type="checkbox"/> Associate of Applied Science (AAS) Degree	93-95
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <i>Within</i> 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

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: 94-95
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 2017-18

[List entire curriculum as last approved]

PROPOSED CURRICULUM 2018-19

[List only course(s) to be amended]

Course	Course Title	Hours	Credits	Course	Course Title	Hours	Credits
Automotive Service Technology Associate of Applied Science Degree: 1st Year							
Fall Term							
AM-121	General Auto Repair I	77	3				
AM-129	Electrical Systems	154	7				
AM-130	Brake Systems	154	7				
Winter Term							
AM-122	General Auto Repair II	72	3				
AM-131	Chassis Systems	154	7				
MTH-050 Or MTH-065	Technical Mathematics I Algebra II	44	3-4	MTH-050 Or MTH-065	Technical Mathematics I Algebra II	44	4
Spring Term							
AM-133	Engine Systems	154	7				
AM-223	Hybrid Service Technology	77	3				
WR-101 Or WR-121	Communication Skills: Occupational Writing or English Composition	44	3-4				
Summer Term							
AM-280*	Auto Mechanics/CWE	216	6				
Automotive Service Technology Associate of Applied Science Degree: 2nd Year							
Fall Term							
AM-245	Automatic Transmission Systems	154	7				
WLD-102 Or AB-112	Introduction to Welding or Collision Repair Welding I	44-48	2				
--	Human Relations requirement (see page 82) (Recommended: PSY-101 or COMM-100**)		3				
--	PE/Health/Safety/First Aid requirement (see page 82) (Recommended: HE-252 or MFG-107)		3				
Winter Term							
AM-243	Fuel & Emission Control Systems	154	7				
AM-244	Advanced Electrical Systems	154	7				
Spring Term							
AM-224	Comfort Systems	88	4				
AM-228	Service Shop Management	44	4				
AM-235	Power Transmission Systems	154	7				
*May be taken after the first year							

Note: Alternative course schedule is available. Contact the Automotive Department, 503-594-3047 for information							
TOTAL CURRENT CREDITS:	93-95	TOTAL PROPOSED CREDITS:	94-95				

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



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College:	Clackamas Community College	Date	12/7/17
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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					
APPROVED Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	APPROVED CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			APPROVED Recognition Award	Current Credits
	6-digit CIP	7 th digit	8 th digit		
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 Clinical Laboratory Assistant Certificate	51.0802			<input checked="" type="checkbox"/> Certificate of Completion	51-54

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

TYPE OF PROGRAM AMENDMENT (Check ALL That Apply)			
<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits	
<input type="checkbox"/> Title Change for Program		<i>Proposed Total Credits:</i>	52-54
<i>Proposed AAS Title:</i>			
<i>Proposed OPTION Title:</i>			
<i>Proposed Certificate Title:</i>			
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>		
Suspension Effective Date:			

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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 2017-18 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2018-19 [List only course(s) to be amended]			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock 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		3				
MTH-050 Or MTH-065	Technical Mathematics I Or Algebra II		3-4	MTH-050 Or MTH-065	Technical Mathematics or Algebra II		4
Clinical Laboratory Assistant: Certificate							
Fall Term							
BI-120*	Introduction to Human Anatomy & 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 I Lab	33	1				
CLA-118	Phlebotomy for Clinical Laboratory Assistants	33	1				
CLA-118L	Phlebotomy for Clinical Laboratory Assistants 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 II Lab	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 III Lab	33	1				
CLA-120	Laboratory/Phlebotomy Practicum II	107	4				
CLA-125	Introduction to Clinical	22	2				

	Research						
COMM-100** Or COMM-111 Or COMM-218	Basic Speech Comm or Public Speaking or Interpersonal Comm	33-44	3-4				
PSY-101	Human Relations	33	3				
*Additional options to meet biology requirement: pass with C or better BI-101 & BI-102 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:			51-54	TOTAL PROPOSED CREDITS:			52-54

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature			Date

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College:	Clackamas Community College	Date	12/07/17
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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

APPROVED Program Title <i>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</i>	APPROVED CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			APPROVED Recognition Award	Current Credits
	6-digit CIP	7 th digit	8 th digit		
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 checked="" type="checkbox"/> Yes** <input type="checkbox"/> No CNC Machining Technician – Career Pathway	15.0613			<input checked="" type="checkbox"/> Certificate of Completion	23-25

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

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 24-25
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 2017-18 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2018-19 [List only course(s) to be amended]			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
MFG-104	Print Reading	33	2				
MFG-107	Industrial Safety & First Aid	33	3				
MFG-111	Machine Tool Fundamentals I	198	9				
MFG-201	CNC I: Set-up & Operation	88	4				
MTH-050	Technical Mathematics I	44	3	MTH-050	Technical Mathematics I	44	4
--	CNC Machining Technician program elective		2-4				
CNC Machining Technician Program Electives							
MFG-105	Dimensional Inspection	28	2				
MFG-106	Advanced Applied Geometric Dimensioning and Tolerancing for Manufacturing	33	2				
MFG-112	Machine Tool Fundamentals II	198	3				
MFG-202	CNC II: Programming & Operation	88	4				
MFG-204	Computer-Aided Manufacturing I	88	4				
WLD-150	Welding Processes	88	4				
TOTAL CURRENT CREDITS:			23-25	TOTAL PROPOSED CREDITS:			24-25

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	



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College: Clackamas Community College	Date: 12/7/17
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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					
APPROVED Program Title <i>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</i>	APPROVED CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			APPROVED Recognition Award	Current Credits
	6-digit CIP	7 th digit	8 th digit		
AAS Title: Computer-Aided Manufacturing	15.1302			<input checked="" type="checkbox"/> Associate of Applied Science (AAS) Degree	97
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <i>Within</i> 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

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: 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 2017-18 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2018-19 [List only course(s) to be amended]			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
Computer-Aided Manufacturing Associate of Applied Science Degree: 1st Year							
First Term							
CDT-102	Sketching and Problem Solving	66	3				
MFG-111	Machine Tool Fundamentals I	198	6				
MTH-050**	Technical Mathematics I	44	3	MTH-050**	Technical Mathematics I	44	4
WR-101**	Communication Skills: Occupational Writing	33	3				
Second Term							
CDT-108A	Introduction to SolidWorks	66	3				
MFG-105	Dimensional Inspection	28	2				
MFG-109	Computer Literacy for Technicians	39	3				
MFG-112	Machine Tool Fundamentals II	198	6				
MTH-080**	Technical Mathematics II	44	3				
Third Term							
CDT-225	Advanced SolidWorks	66	3				
MFG-106	Advanced Applied Geometric Dimensioning and Tolerancing for Manufacturing	33	3				
MFG-113	Machine Tool Fundamentals III	198	6				
MFG-221	Materials Science	66	3				
--	CAD/CAM program elective		3				
Computer-Aided Manufacturing Associate of Applied Science Degree: 2nd Year							
Fourth Term							
CDT-223	Inventor Fundamentals	66	3				
MFG-130	Basic Electricity I	33	3				
MFG-201	CNC I: Set-up & Operation	88	4				
MFG-204	Computer-Aided Manufacturing I	88	4				
--**	Human Relations requirement		3				
Fifth Term							
MFG-107	Industrial Safety & First Aid	33	3				
MFG-202	CNC II: Programming & Operation	88	4				
MFG-205	Computer-Aided Manufacturing II	88	4				
MFG-209	Programming & Automation for Manufacturing	33	3				

Sixth Term							
MET-170	Introduction to Manufacturing Processes	33	3				
MFG-203	CNC III: Applied Programming & Operation	66	3				
MFG-206	Computer-Aided Manufacturing III	66	3				
MFG-219	Robotics	66	3				
MFG-280	Manufacturing Technology/CWE	216	4				
Computer-Aided Manufacturing Program Electives							
Any course with a CDT, EET, MFG, RET or WLD prefix.							
Students with specialized job training needs may be eligible to substitute some classes. Consult your instructor or the department chair for more information.							
**Substitute college transfer courses for these courses if you plan to continue your education at a higher education institution. It is recommended that you consult with a faculty advisor or a staff member in Student Services for the transfer requirements of the specific advanced program or school.							
TOTAL CURRENT CREDITS:			97	TOTAL PROPOSED CREDITS:			98

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	

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College: Clackamas Community College	Date: 12/07/17
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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

APPROVED Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	APPROVED CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			APPROVED Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
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 AAS Degree?</i> <input checked="" type="checkbox"/> Yes** <input type="checkbox"/> No Energy Systems Maintenance Technician – Career Pathway	15.0303			<input checked="" type="checkbox"/> Certificate of Completion	23-25

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

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program**	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 24-25
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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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 2017-18 <small>[List entire curriculum as last approved]</small>				PROPOSED CURRICULUM 2018-19 <small>[List only course(s) to be amended]</small>			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
EET-139	Principles of Troubleshooting I	44	2				
MFG-104	Print Reading	33	2				
MFG-107	Industrial Safety & First Aid	33	3				
MFG-130	Basic Electricity I	33	3				
MTH-050	Technical Mathematics I	44	3	MTH-050	Technical Mathematics I	44	4
RET-200	Renewable Energy Systems	44	4				
--	Energy Systems Maintenance Technician Program Electives		6-8				
Energy Systems Maintenance Technician Program Electives							
Select 6-8 elective credits from the following:							
MET-170	Manufacturing Processes	33	3				
MFG-103	Machining for the Fabrication & Maintenance Trades	66	6				
RET-209	Renewable Energy I: Energy Efficiency	66	3				
WLD-150 or WLD-102	Welding Processes Introduction to Welding	88 44	4 2				
TOTAL CURRENT CREDITS:			23-25	TOTAL PROPOSED CREDITS:			24-25

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	

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and Workforce Development
255 Capitol Street NE
Salem, OR 97310-0203

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FAX: (503) 378-5156



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: 12/07/17
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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 <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	APPROVED CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			APPROVED Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
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 checked="" type="checkbox"/> Yes** <input type="checkbox"/> No Fire Science (Wildland)	43.0203			<input checked="" type="checkbox"/> Certificate of Completion	45-48

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

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 46-48
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 2017-18 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2018-19 [List only course(s) to be amended]			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
First Term							
FRP-101	Basic Forest Management	33	3				
FRP-102	Basic Forest Management Lab	33	1				
FRP-130	Introduction to Wildland Firefighting (S-130/S-190/L-180)	44	2				
FRP-243	Wilderness I: Psychology of Survival	22	2				
WR-121 or WR-101	English Composition or Occupational Writing		3-4				
--	Fire Science (Wildland) program electives		4				
Second Term							
FRP-211	Portable Pumps & Water Use (S-211)	20	2				
FRP-244	Wilderness II: Basic Land Navigation (S-244)	33	3				
FRP-246	Wilderness IV: Backcountry CPR/First Aid/AED	22	2				
MTH-050 or MTH-065	Technical Mathematics I or Algebra II		3-4	MTH-050 or MTH-065	Technical Mathematics I or Algebra II		4
--	Fire Science (Wildland) program electives		5				
Third Term							
FRP-110	Basic Wildland Fire Investigation (FI-110)	10	1				
FRP-131	Advanced Firefighter Training (S-131/S-133)	12	1				
FRP-245	Wilderness III: Weather of the Northwest	22	2				
FRP-249	Followership to Leadership (L-280)	20	2				
FRP-250	Wilderness VI: Basic Tool Use and Care	20	1				
FRP-270	Basic Air Operations (S-270)	16	1				
FRP-280	Wildland Fire/Advanced CWE	108	3				
--	Human Relations requirement		3-4				
--	Fire Science (Wildland) program electives		1				
Fire Science (Wildland) Program Electives							

Any EMT, FRP, GEO, GIS, or USP course not already listed in the Fire Science Program				
TOTAL CURRENT CREDITS:	45-48	TOTAL PROPOSED CREDITS:	46-48	

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

Oregon Department of Community Colleges
and Workforce Development
255 Capitol Street NE
Salem, OR 97310-0203

Office of Educational Improvement & Innovation

Phone: (503) 378-3600

FAX: (503) 378-5156



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	12/07/17
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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	<u>Current</u> 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 Fitness Technology	31.0501	J	*	<input checked="" type="checkbox"/> Certificate of Completion	46-48

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

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 47-48
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 2017-18 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2018-19 [List only course(s) to be amended]			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
Fall Term							
COMM-227	Nonverbal Communication	44	4				
HE-202	Introduction to Fitness Technology Careers	11	1				
MTH-050 or MTH-065	Technical Mathematics I Algebra II	44	3-4	MTH-050 Or MTH-065	Technical Mathematics I Or Algebra II	44	4
PE-240	Strength & Conditioning Theory and Techniques	33	3				
--	Fitness Technology program electives	22	3				
Winter Term							
COMM-218	Interpersonal Communication	44	4				
HE-252	First Aid/CPR/AED	33	3				
HPE-295	Health & Fitness for Life	33	3				
PE-280	Physical Education/CWE	108	3				
--	Fitness Technology program electives	33	3				
Spring Term							
HE-201	Personal Training	33	3				
HE-223	Sports Nutrition	33	3				
PE-280	Physical Education/CWE	108	3				
WR-101 or WR-121	Communication Skills: Occupational Writing English Composition	33-44	3-4				
--	Fitness Technology program elective	33	4				
Fitness Technology Program Electives							
ECE-235	Nutrition, Music & Movement in ECE	33	3				
GRN-182	Aging and the Body	33	3				
HE-163	Body & Drugs I Introduction to Abuse & Addiction	33	3				
HE-164	Body & Drugs II: Alcohol	33	3				
HE-201	Personal Training	33	3				
HE-207	Introduction to Plant Based Living	33	3				
HE-249	Mental Health	33	3				
HE-250	Personal Health	33	3				
HE-255	Body & Alcohol	33	3				
PE-185	Physical Education Activity Course	33	1				

PE-260	Care & Prevention of Athletic Injuries	44	2				
PE-270	Sport & Exercise Psychology	33	3				
PE-294A	Philosophy of Coaching	40	2				
TOTAL CURRENT CREDITS:			46-48	TOTAL PROPOSED CREDITS:			47-48

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature			Date 1-16-18



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	12/07/17
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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

APPROVED Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	APPROVED CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			APPROVED Recognition Award	Current Credits
	6-digit CIP	7 th digit	8 th digit		
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 Geographic Information Systems (GIS) Technology	15.1102			<input checked="" type="checkbox"/> Certificate of Completion	48

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

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input checked="" 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	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 2017-18 <small>[List entire curriculum as last approved]</small>				PROPOSED CURRICULUM 2018-19 <small>[List only course(s) to be amended]</small>			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
First Term							
GEO-100 or GEO-110	Introduction to Physical Geography Cultural & Human Geography	44	4				
GIS-201	Introduction to Geographic Information System	66	3				
GIS-236	Programming for GIS	22	1				
MFG-109	Computer Literacy for Technicians	39	3				
MTH-050	Technical Mathematics I	44	3	MTH-050	Technical Mathematics I	44	4
WR-121	English Composition	44	4				
Second Term							
CDT-103	Computer-Aided Drafting I	88	3				
GIS-237	Advanced Programming for GIS	22	1				
GIS-281	ArcGIS I	66	3				
GIS-286	Remote Sensing	66	3				
MTH-080	Technical Mathematics II	44	3				
--	Technical elective		3				
Third Term							
CDT-224	Professional Web Design	22	1				
GIS-232	Data Collection & Application	60	3				
GIS-280	GIS/CWE	144	4				
GIS-282	ArcGIS II	66	3				
--	Human Relations requirement (see page 82)		3				
Technical Electives							
Any course with a GIS or CDT prefix.							
TOTAL CURRENT CREDITS:			48	TOTAL PROPOSED CREDITS:			49

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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College:	Clackamas Community College	Date	12/07/17
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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	<u>Current</u> 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 type="checkbox"/> No Industrial Maintenance Technology – Mechanical Maintenance				<input checked="" type="checkbox"/> Certificate of Completion	48

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

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input checked="" 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	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 2017-18 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2018-19 [List only course(s) to be amended]			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
Fall Term							
IMT-104	Reading Schematics & Symbols	22	2				
MFG-103	Machining/Fab & Maint Trades	66	3				
MFG-107	Industrial Safety & First Aid	33	3				
MFG-109	Computer Literacy for Technicians	66	3				
IMT-108	Rigging & Lifting	44	2				
MTH-050	Technical Mathematics I	44	3	MTH-050	Technical Mathematics I	44	4
Winter Term							
IMT-120	Industrial Machinery I	66	3				
WLD-150	Welding Processes	88	4				
MFG-140	Principles of Fluid Power	66	3				
MTH-080	Technical Mathematics II	44	3				
COMM-100	Basic Speech Communication	33	3				
Spring Term							
IMT-110	Preventative Maintenance	44	2				
MET-170	Introduction to Manufacturing Processes	33	3				
MFG-221	Materials Science	66	3				
MFG-280	Manufacturing Technology/CWE	72	2				
WR-101	Communication Skills: Occupational Writing	33	3				
--	Technical Elective		3				
Industrial Maintenance Technology Program Electives							
Any course with a MFG, WLD, EET, GIS, SM, CDT, or MET prefix not included in the Industrial Maintenance Technology program or other technical course with approval.							
TOTAL CURRENT CREDITS:			48	TOTAL PROPOSED CREDITS:			49

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	



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	12/19/17
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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	<u>Current</u> Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Industrial Maintenance Technology				<input checked="" type="checkbox"/> Associate of Applied Science (AAS) Degree	97
Option Title**				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Certificate Title: <i>Within</i> 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

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: 98-99
<i>Proposed AAS Title:</i>		
<i>Proposed OPTION Title:</i>		
<i>Proposed Certificate Title:</i>		
<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 2017-18 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2018-19 [List only course(s) to be amended]			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
Industrial Maintenance Technology Associate of Applied Science Degree: 1st Year							
Fall Term							
IMT-104	Reading Schematics & Symbols	22	2				
MFG-103	Machining/Fab & Maint Trades	66	3				
MFG-107	Industrial Safety & First Aid	33	3				
MFG-109	Computer Literacy for Technicians	66	3				
MFG-130	Basic Electricity I	33	3				
MTH-050	Technical Mathematics I	44	3	MTH-050	Technical Mathematics I	44	4
Winter Term							
COMM-100	Basic Speech Communication	33	3				
EET/IMT-139	Principles of Troubleshooting I	44	2				
IMT-120	Industrial Machinery I	66	3				
MFG-131	Basic Electricity II	33	3				
MFG-140	Fluid Power	66	3				
MTH-080	Technical Mathematics II	44	3				
Spring Term							
IMT-110	Preventative Maintenance	44	2				
MFG-132	Basic Electricity III	33	3				
MFG-221	Materials Science	66	3				
MFG-280	Cooperative Work Experience	72	2				
WR-101	Communication Skills: Occupational Writing	33	3				
--	Technical Elective		3				
Industrial Maintenance Technology Associate of Applied Science Degree: 2nd Year							
Fall Term							
EET/IMT-239	Principles of Troubleshooting II	44	2				
IMT-108	Rigging & Lifting	44	2				
IMT-215	Electromechanical Systems I	44	2				
IMT-220	Industrial Machinery II	66	3				
WLD-150	Welding Processes	88	4				
--	Technical Elective		3				
Winter Term							
CDT-108A	Introduction to	66	3	CDT-108A	Intro to SolidWorks		3-4

or CDT-103	SolidWorks AutoCAD			Or CDT-103	or Computer-Aided Drafting I		
IMT-225	Electromechanical Systems II	44	2				
IMT-233	Programmable Logic Controllers I	33	3				
MFG-209	Programming and Automation	36	3				
MFG-223	Materials Science & Practical Metallurgy	33	3				
--	Technical Elective		3				
Spring Term							
IMT-234	Programmable Logic Controllers II	33	3				
MET-170	Introduction to Manufacturing Process	33	3				
MFG-219	Robotics	66	3				
MFG-280	Cooperative Work Experience	72	2				
--	Technical Elective		3				
Industrial Maintenance Technology Program Electives							
Any course with a MFG, WLD, EET, GIS, SM, CDT, or MET prefix not included in the Industrial Maintenance Technology program or other technical course with approval.							
TOTAL CURRENT CREDITS:			97	TOTAL PROPOSED CREDITS:			98-99

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	

Oregon Department of Community Colleges
and Workforce Development
255 Capitol Street NE
Salem, OR 97310-0203

Office of Educational Improvement & Innovation

Phone: (503) 378-3600
FAX: (503) 378-5156



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

College:	Clackamas Community College	Date	12/07/17
-----------------	------------------------------------	-------------	-----------------

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					
APPROVED Program Title <i>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</i>	APPROVED CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			APPROVED Recognition Award	Current Credits
	6-digit CIP	7 th digit	8 th digit		
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 type="checkbox"/> No Industrial Maintenance Technology				<input checked="" type="checkbox"/> Certificate of Completion	50

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

TYPE OF PROGRAM AMENDMENT (Check ALL That Apply)			
<input type="checkbox"/> New Program**	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits	
<input type="checkbox"/> Title Change for Program		<i>Proposed Total Credits:</i>	51
<i>Proposed AAS Title:</i>			
<i>Proposed OPTION Title:</i>			
<i>Proposed Certificate Title:</i>			
<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 2017-18 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2018-19 [List only course(s) to be amended]			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
Fall Term							
IMT-104	Reading Schematics & Symbols	22	2				
MFG-103	Machining/Fab & Maint Trades	66	3				
MFG-107	Industrial Safety & First Aid	33	3				
MFG-109	Computer Literacy for Technicians	66	3				
MFG-130	Basic Electricity I	33	3				
MTH-050	Technical Mathematics I	44	3	MTH-050	Technical Mathematics I	44	4
Winter Term							
COMM-100	Basic Speech Communication	33	3				
EET/IMT-139	Principles of Troubleshooting I	44	2				
IMT-120	Industrial Machinery I	66	3				
MFG-131	Basic Electricity II	33	3				
MFG-140	Principles of Fluid Power	66	3				
MTH-080	Technical Mathematics II	44	3				
Spring Term							
IMT-110	Preventative Maintenance	44	2				
MFG-132	Basic Electricity III	33	3				
MFG-221	Materials Science	66	3				
MFG-280	Manufacturing Technology/CWE	72	2				
WR-101	Communication Skills: Occupational Writing	33	3				
--	Technical Elective		3				
Industrial Maintenance Technology Program Electives							
Any course with a MFG, WLD, EET, GIS, SM, CDT, or MET prefix not included in the Industrial Maintenance Technology program or other technical course with approval.							
TOTAL CURRENT CREDITS:			50	TOTAL PROPOSED CREDITS:			51

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	



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: 12/20/17
---	-----------------------

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	<u>Current</u> Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Manufacturing Technology	15.0613			<input checked="" type="checkbox"/> Associate of Applied Science (AAS) Degree	93
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <i>Within</i> 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

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: 94
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 2017-18 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2018-19 [List only course(s) to be amended]			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
Manufacturing Technology Associate of Applied Science Degree: 1st Year							
First Term							
MFG-104	Print Reading	33	2				
MFG-107	Industrial Safety & First Aid	33	3				
MFG-111	Machine Tool Fundamentals I	198	9				
MTH-050*	Technical Mathematics I	44	3	MTH-050*	Technical Mathematics I	44	4
Second Term							
MFG-105	Dimensional Inspection	28	2				
MFG-109 or MFG-209	Computer Literacy for Technicians Programming and Automation for Manufacturing	33-39	3				
MFG-112	Machine Tool Fundamentals II	198	9				
MTH-080	Technical Mathematics II	44	3				
Third Term							
MFG-106	Adv. Applied Geometric Dimensioning and Tolerancing for Manufacturing	33	3				
MFG-201	CNC I: Set-up & Operation	88	4				
MFG-280	Manufacturing Technology/CWE	72	2				
WR-101*	Communication Skills: Occupational Writing	33	3				
--	Human Relations requirement (see page 82)		3				
Manufacturing Technology Associate of Applied Science Degree: 2nd Year							
Fourth Term							
MFG-113	Machine Tool Fundamentals III	198	9				
MFG-204	Computer-Aided Manufacturing I	88	4				
--	Manufacturing Technology program electives		3				
Fifth Term							
MFG-202	CNC II: Programming & Operation	88	4				
MFG-205	Computer-Aided Manufacturing II	88	4				
MFG-211	Machine Tool Fundamentals IV	132	6				

Sixth Term							
MFG-203	CNC III: Applied Programming & Operation	66	3				
MFG-206	Computer-Aided Manufacturing III	66	3				
MFG-221	Materials Science	66	3				
MFG-280	Manufacturing Technology/CWE	216	2				
--*	General elective (any course 100 level or above)		3				
Manufacturing Technology Program Electives							
Complete three or more credits from the following:							
CDT-102	Sketching & Problem Solving	66	3				
CDT-103	Computer-Aided Drafting I	88	4				
CDT-108A	Introduction to SolidWorks	66	3				
CDT-223	Inventor Fundamentals	66	3				
CDT-225	Advanced SolidWorks	66	3				
MET-170	Introduction to Manufacturing Processes	33	3				
MFG-103	Machining for the Fabrication & Maintenance Trades	66	3				
MFG-130	Basic Electricity I	33	3				
MFG-219	Robotics	66	3				
WLD-150	Welding Processes	88	4				
--	Other technical courses with departmental approval		4				
*Substitute college transfer courses for these courses if you plan to continue your education at a higher education institution. It is recommended that you consult with a faculty advisor or a staff member in Student Services for the transfer requirements of the specific advanced program or school.							
TOTAL CURRENT CREDITS:			93	TOTAL PROPOSED CREDITS:			94

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	



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	12/07/17
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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	<u>Current</u> 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 checked="" type="checkbox"/> Yes** <input type="checkbox"/> No Manufacturing Technology	15.0613			<input checked="" type="checkbox"/> Certificate of Completion	49

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

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program**	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 50
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 2017-18</i> [List entire curriculum as last approved]				<i>PROPOSED CURRICULUM 2018-19</i> [List only course(s) to be amended]			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
First Term							
MFG-104	Print Reading	33	2				
MFG-107	Industrial Safety & First Aid	33	3				
MFG-111	Machine Tool Fundamentals I	198	9				
MTH-050*	Technical Mathematics I	44	3	MTH-050*	Technical Mathematics I	44	4
Second Term							
MFG-105	Dimensional Inspection	28	2				
MFG-109 or MFG-209	Computer Literacy for Technicians Programming and Automation for Manufacturing	33-39	3				
MFG-112	Machine Tool Fundamentals II	198	9				
MTH-080	Technical Mathematics II	44	3				
Third Term							
MFG-106	Advanced Applied Geometric Dimensioning and Tolerancing for Manufacturing	33	3				
MFG-201	CNC I: Set-up & Operation	88	4				
MFG-280	Manufacturing Technology/CWE	72	2				
WR-101*	Communication Skills: Occupational Writing	33	3				
--	Human Relations requirement (see page 82)		3				
Manufacturing Technology Program Electives							
Complete three or more credits from the following:							
CDT-102	Sketching & Problem Solving	66	3				
CDT-103	Computer-Aided Drafting I	88	4				
CDT-108A	Introduction to SolidWorks	66	3				
CDT-223	Inventor Fundamentals	66	3				
CDT-225	Advanced SolidWorks	66	3				
MET-170	Introduction to Manufacturing Processes	33	3				
MFG-103	Machining for the Fabrication & Maintenance Trades	66	3				
MFG-130	Basic Electricity I	33	3				
MFG-219	Robotics	66	3				
WLD-150	Welding Processes	88	4				

--	Other technical courses with departmental approval		4				
*Substitute college transfer courses for these courses if you plan to continue your education at a higher education institution. It is recommended that you consult with a faculty advisor or a staff member in Student Services for the transfer requirements of the specific advanced program or school.							
TOTAL CURRENT CREDITS:			49	TOTAL PROPOSED CREDITS:			50

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	



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: 12/19/17
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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

APPROVED Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	APPROVED CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			APPROVED Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
AAS Title: Microelectronics Systems Technology	15.0612			<input checked="" type="checkbox"/> Associate of Applied Science (AAS) Degree	99
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <i>Within</i> 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

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: 100
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 2017-18 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2018-19 [List only course(s) to be amended]			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
Microelectronics Systems Technology Associate of Applied Science Degree: 1st Year							
First Term							
EET-112	Electronic Test Equipment & Soldering	66	3				
EET-137	Electrical Fundamentals I	88	4				
MFG-107	Industrial Safety & First Aid	33	3				
MFG-109	Computer Literacy for Technicians	39	3				
MTH-050*	Technical Mathematics I	44	3	MTH-050*	Technical Mathematics I	44	4
SM-150	Semiconductor Processing I	22	2				
WR-101*	Communication Skills: Occupational Writing	33	3				
Second Term							
EET-139	Principles of Troubleshooting I	44	2				
EET-141	Electrical Fundamentals II	88	4				
EET-157	Digital Logic I	66	3				
ESH-100	Environmental Regulations	33	2				
MTH-080*	Technical Mathematics II	44	3				
SM-160	Semiconductor Processing II	22	2				
Third Term							
EET-127	Semiconductor Circuits I	88	4				
EET-142	Electrical Fundamentals III	88	4				
SM-170	Semiconductor Processing III	22	2				
SM-280	Electronics & Microelectronics/CWE	72	2				
--	Microelectronics Systems Technology program electives		3				
--	Human Relations requirement (see page 82)		3				
Microelectronics Systems Technology Associate of Applied Science Degree: 2nd Year							
Fourth Term							
CH-104	Introductory Chemistry	77	5				
EET-215	Electromechanical Systems I	44	2				
EET-239	Principles of Troubleshooting II	44	2				
IMT-104	Reading Schematics & Symbols	33	2				

--	Microelectronics Systems Technology program electives		3				
Fifth Term							
EET-250	Linear circuits	66	3				
MFG-140	Principles of Fluid Power	66	3				
MFG-209	Programming and Automation for Manufacturing	33	3				
MFG-223	Materials Science & Practical Metallurgy	33	3				
SM-136	Photolithography	22	2				
SM-280	Electronics & Microelectronics/CWE	72	2				
Sixth Term							
EET-230	Laser and Fiber Optics	33	3				
IMT-233	Programmable Logic Controllers I	33	3				
SM-229	Vacuum Technology	22	2				
--	Microelectronics Systems Technology program electives		6				
Microelectronics Systems Technology Program Electives							
Any course with a CDT, EET, RET, SM, MFG, or WLD prefix not already in the Microelectronics Systems Technology program.							
*Substitute college transfer courses for these courses if you plan to continue your education at a higher education institution. It is recommended that you consult with a faculty advisor or a staff member in Student Services for the transfer requirements of the specific advanced program or school.							
TOTAL CURRENT CREDITS:			99	TOTAL PROPOSED CREDITS:			100

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	



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	12/07/17
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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	<u>Current</u> Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
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 checked="" type="checkbox"/> Yes** <input type="checkbox"/> No Microelectronics Systems Technology	15.0612			<input checked="" type="checkbox"/> Certificate of Completion	55

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

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 56
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 2017-18 <small>(List entire curriculum as last approved)</small>				PROPOSED CURRICULUM 2018-19 <small>(List only course(s) to be amended)</small>			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
First Term							
EET-112	Electronic Test Equipment & Soldering	66	3				
EET-137	Electrical Fundamentals I	88	4				
MFG-107	Industrial Safety & First Aid	33	3				
MFG-109	Computer Literacy for Technicians	39	3				
MTH-050*	Technical Mathematics I	44	3	MTH-050*	Technical Mathematics I	44	4
SM-150	Semiconductor Processing I	22	2				
WR-101*	Communication Skills: Occupational Writing	33	3				
Second Term							
EET-139	Principles of Troubleshooting I	44	2				
EET-141	Electrical Fundamentals II	88	4				
EET-157	Digital Logic I	66	3				
ESH-100	Environmental Regulations	33	2				
MTH-080*	Technical Mathematics II	44	3				
SM-160	Semiconductor Processing II	22	2				
Third Term							
EET-127	Semiconductor Circuits I	88	4				
EET-142	Electrical Fundamentals III	88	4				
SM-170	Semiconductor Processing III	22	2				
SM-280	Electronics & Microelectronics/CWE	72	2				
--	Microelectronics Systems Technology program electives		3				
--	Human Relations requirement (see page 82)		3				
Microelectronics Systems Technology Program Electives							
Any course with a CDT, EET, RET, SM, MFG, or WLD prefix not already in the Microelectronics Systems Technology program.							
*Substitute college transfer courses for these courses if you plan to continue your education at a higher education institution. It is recommended that you consult with a faculty advisor or a staff member in Student Services for the transfer requirements of the specific advanced program or school.							
TOTAL CURRENT CREDITS:			55	TOTAL PROPOSED CREDITS:			56

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



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: 12/07/17
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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	<u>Current</u> 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 Music Technology	10.0203			<input checked="" type="checkbox"/> Certificate of Completion	50-60

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

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 51-60
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 2017-18 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2018-19 [List only course(s) to be amended]			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
Fall Term							
MUS-107	Introduction to Audio Recording I	33	3				
MUS-141	Introduction to the Music Business	33	3				
MUS-142	Introduction to Electronic Music I: MIDI	33	3				
WR-101 or WR-121	Communication Skills: Occupational Writing English Composition	33-44	3-4				
--	Music Technology program basics		3-4				
--	Music Technology program electives		2-4				
Winter Term							
COMM-100 or COMM-126 or COMM-140 or COMM-218	Basic Speech Communication Communication Between the Sexes Introduction to Intercultural Communication Interpersonal Communication	33-44	3-4				
MTH-050 or MTH-065	Technical Mathematics I Algebra II (or higher level of math)	44-55	3-5	MTH-050 Or MTH-065	Technical Mathematics I or Algebra II or higher level of math	44-55	4-5
MUS-108	Introduction to Audio Recording II	33	3				
MUS-140	Careers in Music	33	3				
MUS-143	Introduction to Electronic Music II: Sequencing, Audio Looping, Sound EFX	33	3				
--	Music Technology program basics		3-4				
--	Music Technology program electives		2-4				
Spring Term							
MUS-109	Introduction to Audio Recording III	33	3				
MUS-144	Introduction to Electronic Music III: Digital Audio	33	3				
MUS-280	Music/CWE	72	2				

--	Music Technology program basics		3				
--	Music Technology program electives		2				
Music Technology Program Basics							
Complete nine credits from the following:							
MUP-100	Individual Lessons: Non-Music Majors	10	1				
MUS-101	Music Fundamentals	33	3				
MUS-102	Music Fundamentals	33	3				
MUS-103	Music Fundamentals	33	3				
MUS-105	Music Appreciation	33	3				
MUS-111	Music Theory I	33	3				
MUS-112	Music Theory I	33	3				
MUS-113	Music Theory I	33	3				
MUS-131	Group Piano: Piano for Pleasure	22	1				
MUS-132	Group Piano: Piano for Pleasure	22	1				
MUS-133	Group Piano: Piano for Pleasure	22	1				
MUS-134	Group Voice: Anyone Can Sing	22	1				
MUS-135	Group Voice: Anyone Can Sing	22	1				
MUS-136	Group Voice: Anyone Can Sing	22	1				
MUS-137	Group Guitar I: Guitar for Dummies	22	1				
MUS-138	Group Guitar II	22	1				
MUS-205	Music Literature: History of Jazz	44	4				
MUS-206	Music Literature: History of Rock	44	4				
Music Technology Program Electives							
Complete six credits from the following:							
MUP-100	Individual Lessons: Non-Music Majors	10	1				
MUP-102	Wind Ensemble	44	2				
MUP-104	Pep Band/Combo-Improv	22	1				
MUP-105	Jazz Ensemble	44	2				
MUP-121	Choral Ensemble: The Roots Project	30	1				
MUP-122	Chamber Choir	55	2				
MUP-125	Vocal Jazz Ensemble: Mainstream	55	2				
MUP-141	College Orchestra	44	2				
MUP-150	Contemporary Music Ensemble	22	1				
MUP-241	College Orchestra	44	1				
MUS-101	Music Fundamentals	33	3				

MUS-102	Music Fundamentals	33	3				
MUS-103	Music Fundamentals	33	3				
MUS-105	Music Appreciation	33	3				
MUS-106	Audio Recording at Home	11	1				
MUS-130	Music & Media: Sex, Drugs, Rock & Roll	11	1				
MUS-131	Group Piano: Piano for Pleasure	22	1				
MUS-132	Group Piano: Piano for Pleasure	22	1				
MUS-133	Group Piano: Piano for Pleasure	22	1				
MUS-134	Group Voice: Anyone Can Sing	22	1				
MUS-135	Group Voice: Anyone Can Sing	22	1				
MUS-136	Group Voice: Anyone Can Sing	22	1				
MUS-137	Group Guitar I: Guitar for Dummies	22	1				
MUS-138	Group Guitar II	22	1				
MUS-145	Introduction to Digital Sound, Video & Animation	33	3				
MUS-147	Music, Sound & Moviemaking	11	1				
MUS-148	Live Sound Engineering	33	3				
MUS-149	Advanced Pro Tools Editing Techniques	11	1				
MUS-160	Songwriting I	22	2				
MUS-161	Songwriting II	22	2				
MUS-170	Introduction to Scoring Music for Media	22	2				
MUS-171	Sound Design	22	2				
MUS-205	Music Literature: History of Jazz	44	4				
MUS-206	Music Literature: History of Rock	44	4				
MUS-247	Sound for Media	33	3				
TOTAL CURRENT CREDITS:		50-60		TOTAL PROPOSED CREDITS:			51-60

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature			Date 1/16/18

Oregon Department of Community Colleges
and Workforce Development
255 Capitol Street NE
Salem, OR 97310-0203

Office of Educational Improvement & Innovation

Phone: (503) 378-3600
FAX: (503) 378-5156



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	12/07/17
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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	<u>Current</u> Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
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 Occupational Skills Training	32.0107			<input checked="" type="checkbox"/> Certificate of Completion	48

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

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)


<input type="checkbox"/> New Program**	<input type="checkbox"/> Curriculum Revision	<input checked="" 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	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 2017-18 <small>[List entire curriculum as last approved]</small>				PROPOSED CURRICULUM 2018-19 <small>[List only course(s) to be amended]</small>			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
Program Requirements							
OST-180	Occupational Skills Training/CWE	864	24				
--	Occupational related courses		15				
Related Instruction Requirements							
MTH-050	Technical Mathematics I	44	3	MTH-050	Technical Mathematics I	44	4
WR-101	Communication skills: Occupational Writing	33	3				
--	Human Relations requirement (see page 82)		3				
TOTAL CURRENT CREDITS:			48	TOTAL PROPOSED CREDITS:			49

College Contact	Telephone No.
E-Mail Address	Fax No.
Chief Academic Officer or PTE Dean Signature	Date
	1-16-18



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: 12/19/17
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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	<u>Current</u> Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Renewable Energy Technology	15.0303			✓ Associate of Applied Science (AAS) Degree	96-97
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <i>Within</i> 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

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: 97-98
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 2017-18 [List entire curriculum as last approved]				PROPOSED CURRICULUM 2018-19 [List only course(s) to be amended]			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
Renewable Energy Technology Associate of Applied Science Degree: 1st Year							
First Term							
MFG-109	Computer Literacy for Technicians	39	3				
MFG-130	Basic Electricity I	33	3				
MTH-050	Technical Mathematics I	44	3	MTH-050	Technical Mathematics I	44	4
RET-200	Renewable Energy Systems	44	4				
RET-240	Alternative Fuels	88	4				
Second Term							
EET-139	Principles of Troubleshooting I	44	2				
MFG-107	Industrial Safety & First Aid	33	3				
MFG-131	Basic Electricity II	33	3				
MTH-080	Technical Mathematics II	44	3				
RET-209	Renewable Energy I: Energy Efficiency	66	3				
Third Term							
MET-170	Intro to Manu Processes	33	3				
MFG-103	Machining for the Fabrication & Maintenance Trades	66	3				
RET-211	Renewable Energy II: System Fundamentals	66	3				
RET-280	Renewable Energy Technology/CWE	72	2				
WR-101	Communication Skills: Occupational Writing	33	3				
--	Human Relations requirement (see page 82)		3				
Renewable Energy Technology Associate of Applied Science Degree: 2nd Year							
Fourth Term							
EET-215	Electromechanical Systems I	44	2				
EET-239	Principles of Troubleshooting II	44	2				
GEO-100 or GEO-110 or GEO-130 or GIS-201	Introduction to Physical Geography Cultural & Human Geography Introduction to Environmental Geography Introduction to Geographic	44-66	3-5	GEO-100 or GEO-110 or GEO-130 or GIS-201	Introduction to Physical Geography Cultural & Human Geography Introduction to Environmental Geography	44-66	3-4

	Information System				Introduction to Geographic Information System		
IMT-104	Reading Schematics & Symbols	33	2				
RET-213	Renewable Energy III: Installation & Maintenance	66	3				
--	Renewable Energy Technology program elective		3				
Fifth Term							
MFG-140	Principles of Fluid Power	66	3				
MFG-209	Programming & Automation for Manufacturing	33	3				
MFG-223	Material Science & Practical Metallurgy	33	3				
RET-215	Renewable Energy IV: Systems Design	66	3				
--	Renewable Energy Technology program elective		3				
Sixth Term							
IMT-233	Programmable Logic Controllers I	33	3				
MFG-221	Materials Science	66	3				
RET-217	Renewable Energy Capstone	66	3				
RET-280	Renewable Energy Technology/CWE	72	2				
WLD-150	Welding Processes	88	4				
--	Renewable Energy Technology program elective		3				
Renewable Energy Technology Program Electives							
Any course with a CDT, EET, ERM, GIS, MET, MFG, RET, SM or WLD prefix.							
TOTAL CURRENT CREDITS:			96-97	TOTAL PROPOSED CREDITS:			97-98

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	

Oregon Department of Community Colleges
and Workforce Development
255 Capitol Street NE
Salem, OR 97310-0203

Office of Educational Improvement & Innovation

Phone: (503) 378-3600
FAX: (503) 378-5156



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: 12/07/17
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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	<u>Current</u> 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 checked="" type="checkbox"/> Yes** <input type="checkbox"/> No Renewable Energy Technology	15.0303			<input checked="" type="checkbox"/> Certificate of Completion	48

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

TYPE OF PROGRAM AMENDMENT (Check ALL That Apply)		
<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input checked="" 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.]

<i>CURRENT CURRICULUM 2017-18</i> <small>[List entire curriculum as last approved]</small>				<i>PROPOSED CURRICULUM 2018-19</i> <small>[List only course(s) to be amended]</small>			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
First Term							
MFG-109	Computer Literacy for Technicians	39	3				
MFG-130	Basic Electricity I	33	3				
MTH-050	Technical Mathematics I	44	3	MTH-050	Technical Mathematics I	44	4
RET-200	Renewable Energy Systems	44	4				
RET-240	Alternative Fuels	88	4				
Second Term							
EET-139	Principles of Troubleshooting I	44	2				
MFG-107	Industrial Safety & First Aid	33	3				
MFG-131	Basic Electricity II	33	3				
MTH-080	Technical Mathematics II	44	3				
RET-209	Renewable Energy I: Energy Efficiency	66	3				
Third Term							
MET-170	Introduction to Manufacturing Processes	33	3				
MFG-103	Machining for the Fabrication & Maintenance Trades	66	3				
RET-211	Renewable Energy II: System Fundamentals	66	3				
RET-280	Renewable Energy/CWE	72	2				
WR-101	Communication Skills: Occupational Writing	33	3				
--	Human Relations requirement (see page 82)		3				
TOTAL CURRENT CREDITS:			48	TOTAL PROPOSED CREDITS:			49

College Contact	Telephone No.
E-Mail Address	Fax No.
Chief Academic Officer or PTE Dean Signature	Date



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	12/19/17
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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	<u>Current</u> Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Welding Technology	48.0508			<input checked="" type="checkbox"/> Associate of Applied Science (AAS) Degree	97
Option Title**				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Certificate Title: <i>Within</i> 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

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: 98
<i>Proposed AAS Title:</i>		
<i>Proposed OPTION Title:</i>		
<i>Proposed Certificate Title:</i>		
<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 2017-18 <small>[List entire curriculum as last approved]</small>				PROPOSED CURRICULUM 2018-19 <small>[List only course(s) to be amended]</small>			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
Welding Technology Associate of Applied Science Degree: 1st Year							
First Term							
MFG-107	Industrial Safety & First Aid	33	3				
MTH-050*	Technical Mathematics I	44	3	MTH-050*	Technical Mathematics I	44	4
WLD-100	Welders' Print Reading I	33	3				
WLD-111 or WLD-111A and WLD-111B	Shielded Metal Arc Welding (Stick) Shielded Metal Arc Welding (Stick)	176	8				
Second Term							
MFG-109	Computer Literacy for Technicians	39	3				
WLD-113 or WLD-113A and WLD-113B	Gas Metal Arc Welding/Gas Metal Arc Welding/Flux-Core Arc Welding (Wirefeed) Gas Metal Arc Welding/Flux-Core Arc Welding (Wirefeed)	176	8				
WLD-200	Welders' Print Reading II	33	3				
WR-101*	Communication Skills: Occupational Writing	33	3				
Third Term							
MFG-103	Machining for the Fabrication & Maintenance Trades	66	3				
WLD-110	Welder Certification	88	4				
WLD-115 or WLD-115A and WLD-115B	Gas Tungsten Arc Welding (GTAW) Gas Tungsten Arc Welding (GTAW)	176	8				
WLD-280	Welding Technology/CWE	72	2				
--	Human Relations requirement (see page 82)		3				
Welding Technology Associate of Applied Science Degree: 2nd Year							
Fourth Term							
MFG-221	Materials Science	66	3				
WLD-211	Advanced Shielded Metal Arc Welding	88	4				
WLD-250	Welding Fabrication I	88	4				

	Beginning Project						
--	Welding Technology program elective		3				
Fifth Term							
WLD-210	Pipe Welding	88	4				
WLD-213	Advanced Gas Tungsten Arc Welding	88	4				
WLD-251	Welding Fabrication II Intermediate Project	88	4				
--*	General electives (any college level course)		3				
Sixth Term							
WLD-215	Advanced Gas Tungsten Arc Welding	88	4				
WLD-252	Welding Fabrication III Advanced Project	88	4				
WLD-280	Welding Technology/CWE	72	2				
--	Welding Technology program elective		4				
*Substitute college transfer courses for these courses if you plan to continue your education at a higher education institution. It is recommended that you consult with a faculty advisor or a staff member in Student Services for the transfer requirements of the specific advanced program or school.							
Welding Technology Program Electives							
Any course with a WLD or MFG prefix or other technical course with approval.							
TOTAL CURRENT CREDITS:			97	TOTAL PROPOSED CREDITS:			98

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	



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	12/07/17
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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					
APPROVED Program Title <i>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</i>	APPROVED CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			APPROVED Recognition Award	Current Credits
	6-digit CIP	7 th digit	8 th digit		
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 checked="" type="checkbox"/> Yes** <input type="checkbox"/> No Welding Technology	48.0508			<input checked="" type="checkbox"/> Certificate of Completion	54

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

TYPE OF PROGRAM AMENDMENT (Check ALL That Apply)		
<input type="checkbox"/> New Program**	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		<i>Proposed Total Credits:</i> 55
<i>Proposed AAS Title:</i>		
<i>Proposed OPTION Title:</i>		
<i>Proposed Certificate Title:</i>		
<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 2017-18 <small>(List entire curriculum as last approved)</small>				PROPOSED CURRICULUM 2018-19 <small>(List only course(s) to be amended)</small>			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
First Term							
MFG-107	Industrial Safety & First Aid	33	3				
MTH-050*	Technical Mathematics I	44	3	MTH-050*	Technical Mathematics I	44	4
WLD-100	Welder's Print Reading I	33	3				
WLD-111 or WLD-111A and WLD-111B	Shielded Metal Arc Welding (Stick)	176	8				
Second Term							
MFG-109	Computer Literacy for Technicians	39	3				
WLD-113 or WLD-113A and WLD-113B	Gas Metal Arc Welding/Flux Core Arc Welding (Wirefeed)	176	8				
WLD-200	Welder's Print Reading II	33	3				
WR-101*	Communication Skills: Occupational Writing	33	3				
Third Term							
MFG-103	Machining for the Fabrication & Maintenance Trades	66	3				
WLD-110	Welder Certification	88	4				
WLD-115 or WLD-115A and WLD-115B	Gas Tungsten Arc Welding (GTAW) Gas Tungsten Arc Welding (GTAW)	176	8				
WLD-280	Welding Technology/CWE	72	2				
--	Human Relations requirement (see page 82)		3				
*Substitute college transfer courses for these courses if you plan to continue your education at a higher education institution. It is recommended that you consult with a faculty advisor or a staff member in Student Services for the transfer requirements of the specific advanced program or school.							
TOTAL CURRENT CREDITS:			54	TOTAL PROPOSED CREDITS:			55

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	