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 Communit	y College					Date	12/20/17	
		CAREER	LEA	RNING	ARI	Α			
	d & Natural Resource Syste	• •		☐ He	alth S	ervic	es		
	formation & Communication	ns		☐ Hu	man l	Resou	rces		
☐ Busines	ss & Management			□ Inc	dustri	al & E	ngineering	Systems	
		PROGRA	M IN	FORM	ATIC	N	<del></del> -		
APPROVED Program Title			APPROCIP (Clude 7th used for the property of t	Code & 8th di DCCUR!	gits		PROVED ition Award	<u>Current</u> Credits	
(For Offi http://w	cial Program Title, refer to your dire ww.ode.state.or.us/search/results/?	id=232)	<u>6-di</u>	ait CIP	Z <sup>th</sup> digit	8th diait			
AAS Title: Auto Body/Collision Repair and Refinishing Technolgy		47.	0603			✓ Associate of Applied Science (AAS) Degree		92-94	
Option Tit							□ <i>OPTIO</i> Degree	W to AAS	
Certificate	e Title: <u>Within</u> AAS Degree? 🗆 Y	'es** 🗆 No					Certific Compl		
**Enter name	of base degree in 'AAS Title' box								
	TY	PE OF PR (Chec		AM AN That Ap		MEN	IT		
☐ New Pi	rogram++	☐ Curric	ulum	Revisi	ion		☐ Revisi	on in Program	Credits
☐ Title Cl	hange for Program							Total Credits:	93-94
	<b>Proposed</b> AAS Title:						···.		
	Proposed OPTION Title:								
Pr	oposed Certificate Title:	,,							
	ENSION of Program	Reason for Su	spensio	7:					
5	Suspension Effective Date:								

<sup>++</sup>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.

(	CURRENT CURRICULUM 2  [List entire curriculum as last appro			PI	ROPOSED CURRICULUS [List only course(s) to be am		19
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock	Credits
	Auto Body/Collision Repair and						2200
First Term				12 (21) (2			
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							3.00
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	STEP WATER TO THE TOTAL THE TOTAL THE					100	331 371
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	Refinishin	g Technolo	gy Associate	of Applied Science Degree:	2 <sup>nd</sup> Year	
Fourth Term	Name of the second second second		10.7623			10000	griffen (
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						a particle in the	(5)
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				
						_	

AB-151	Collision Repair Computerized Estimating – CCCONE	44	2			
AB-280	Collision Repair/CWE	216	6			
ABR-142 or ABR-152 or ABR-162	Fundamentals	44	2	I.		
WR-101 or WR-121	Communication Skills: Occupational Writing English Composition	33-44	3-4			
completion of Collision Repa	uirements: Current enrollment AB-112 Collision Repair Weldir ir Refinishing I must be compling in ABR-127 Collision Repair					
TOTAL CURI				TOTAL PR	OPOSED CREDITS:	93-94

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

0.00

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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)

Current instructions, fo http://w		outs and oth te.or.us/sea				are located at	t
College: Clackamas Communi	ty College				Date	12/06/17	_
	CAREER	LEARNING	G ARI	EA			
☐ Ag, Food & Natural Resource Syst		□ He			es		
☐ Arts, Information & Communication		☐ Hu					
☐ Business & Management				ngineering	Systems		
					110		
	PROGRA	M INFORM	IATIO	NC	0.2016		
APPROVED Program Title  (For Official Program Title, refer to your directory at		APPR CIP ( (Include 7 <sup>th</sup> used for report	Code & 8th d OCCUR	igits S		PROVED ition Award	<u>Current</u> Credits
(For Official Program Title, refer to your dir http://www.ode.state.or.us/search/results/		6-digit CIP	Z <sup>th</sup> digit	8th digit			
AAS Title: Automotive Service Technology		47.0604			<ul> <li>✓ Associate of Applied Science (AAS)</li> <li>Degree</li> </ul>		93-95
Option Title**						N to AAS	
Certificate Title: Within AAS Degree?	Yes** □ No				☐ Certifi Compl		
**Enter name of base degree in 'AAS Title' box							
TO THE PARTY OF TH		OGRAM AN		MEN	NT .		
☐ New Program++		ulum Revis			✓ Revisi	on in Progran	1 Credits
☐ Title Change for Program						Total Credits:	94-95
Proposed AAS Title:							
Proposed OPTION Title:							
Proposed Certificate Title:							
☐ SUSPENSION of Program	Reason for Su	spension:					
Suspension Effective Date:							<del>.</del> -

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

	CURRENT CURRICULUM 2	017-18	100	PROPOSED CURRICULUM 2018-19					
	[List entire curriculum as last appro	ved)			[List only course(s) to be a	mended]			
Course	Course Title		Credits		Course Title	Hours	Credits		
	Automotive Service	Technolog	y Associati	e of Applied S	cience Degree: 1st Year		Combine Second		
Fall Term		and the second							
AM-121	General Auto Repair I	77	3						
AM-129	Electrical Systems	154	7						
AM-130	Brake Systems	154	7						
Winter Term	1								
AM-122	General Auto Repair II	72	3						
AM-131	Chassis Systems	154	7		la management de la companya della companya de la companya della c				
MTH-050	Technical Mathematics I	44	3-4	MTH-050	Technical Mathematics	I 44	4		
Or	Algebra II	l		Or	Algebra II				
MTH-065				MTH-065					
Spring Term									
AM-133	Engine Systems	154	7						
AM-223	Hybrid Service Technology	77	3						
WR-101	Communication Skills:	44	3-4						
Or	Occupational Writing	l	1.4						
WR-121	or English Composition	l							
Summer Ter									
AM-280*	Auto Mechanics/CWE	216	6						
AI*1-200*				of Applied C	cience Degree: 2 <sup>nd</sup> Year				
Call Torra	Automouve Service	ecilioloc	y Associate	o Applied 5	derke begree: 2" rear				
Fall Term AM-245	Automotic Transmission	154	1 -						
AM-245	Automatic Transmission Systems	154	7						
WLD-102	Introduction to Welding	44-48	2						
Or	or								
AB-112	Collision Repair Welding I								
	Human Relations		3						
	requirement (see page 82) (Recommended: PSY-101								
	or COMM-100**)								
	PE/Health/Safety/First Aid	1	3						
	requirement (see page 82)		ľ						
	(Recommended: HE-252 or	1			}				
	MFG-107)								
Winter Term									
AM-243	Fuel & Emission Control Systems	154	7						
AM-244	Advanced Electrical	154	7		İ				
	Systems								
Spring Term		II, III		- v - v - v - v	LEASULTON DE L'ASILIANO DE		7/41 VIOL		
AM-224	Comfort Systems	88	4				-		
AM-228	Service Shop Management	44	4		<u> </u>				
AM-235	Power Transmission	154	7						
	Systems								
*May be tak	en after the first year								

Note: Alternative course schedule is available. Contact Automotive Department, 503-594-3047 for information			1	
TOTAL CURRENT CREDITS: 93-95		TOTAL PRO	POSED CREDITS:	94-95

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

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

Current instructions, for
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<sup>++</sup>If new program is an additional award for an existing degree or certificate, complete 'Program Information' section for existing program.

			ete the Pro	oposed Curriculum section only.]						
C	URRENT CURRICULUM 20.  [List entire curriculum as last approve			PR	COPOSED CURRICULUS [List only course(s) to be am		19			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits			
				Certificate Pre	erequisites		1,000			
the student's co	orerequisites must be completed obort. Curriculum prerequisites a carly. To see prerequisites or requartment website.	prior to the	he start of ements		,					
MA-110	Medical Terminology		3	1						
MTH-050	Technical Mathematics I		3-4	MTH-050	Technical Mathematics		4			
Or	or		l	Or	or					
MTH-065	Algebra II			MTH-065	Algebra II					
	GI	nical Lab	oratory Ass	istant Certific	ate		TOTAL STREET			
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 11	3-4							
Winter Term							J. Serve			
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	1)						
CLA-130	Specimen Collection	22	1							
CS-120	Survey of Computing	55	4			1 - 4				
Spring Term				SIL TO SILD			8 0			
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		1			
COMM-100** Or COMM-111 Or	Basic Speech Comm or Public Speaking or	33-44	3-4			
COMM-218	Interpersonal Comm					
PSY-101	Human Relations	33	3			
better BI-101 & I	ns to meet biology requiremen 3I-102 or successfully complete Anatomy & Physiology series.					
ASHI) card are re prior to the first to to complete a cri	card and Healthcare Provider leguired during practicums and term practicum. All CLA studen minal history background, provid take a drug test.					
may be taken for other courses are	practicum courses are Pass/No either a letter grade or pass/r e letter grades only and must b n order to continue to the next	otion. All				
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.						
guilty to a felony placement or be	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 CURRE	TOTAL CURRENT CREDITS: 51-54				OPOSED CREDITS:	52-54

College Contact	Telephone No.		
E-Mail Address	Fax No.		
Chief Academic Officer of 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)

College:	Clackamas Communit	y College				Date	12/07/17		
		CAREER	LEARNING	ARI	EA				
☐ Ag, Foo	d & Natural Resource Syst	ems	☐ He	alth S	ervic	es			
☐ Arts, In	formation & Communication	กร	☐ Human Resources						
□ Business & Management			□ Inc	lustri	al & E	ngineering	Systems		
		PROGRA	M INFORM	ATIC	ON	= 55,000			
<u>APPROVED</u> Program Title		APPRO CIP C	APPROVED CIP Code (Include 7th & 8th digits used for OCCURS			APPROVED Recognition Award			
	(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)		6-digit CIP	Z <sup>th</sup> digit	8m digit			× 1 1	
AAS Title:						ate of Applied e (AAS) e			
Option Tit	le**					□ OPTIC Degree	ON to AAS e		
	e Title: <u>Within</u> AAS Degree? √ Y hining Technician — Ca		15.0613			√ Certificate of Completion		23-25	
	of base degree in 'AAS Title' box		•	,					
	TY		OGRAM AN		MEN	NT.	C #1		
□ New P	rogram++	☐ Curric	ulum Revisi	on		✓ Revisi	on in Progran	Credits	
☐ Title C	hange for Program	5725					Total Credits:	24-25	
	<b>Proposed</b> AAS Title:								
	<b>Proposed OPTION Title:</b>								
Pr	oposed Certificate Title:								
□ SUSPI	ENSION of Program	Reason for Su	spension:						
	Suspension Effective Date:								

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

C	CURRENT CURRICULUM 2 [List entire curriculum as last appr			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		_				
<b>CNC Machini</b>	ing Technician ProgramiElectiv	es							
MFG-105	Dimensional Inspection	28	2						
MFG-106	Advanced Applied Geometric Dimensioning and Tolerancing for Manufacturing	33	2		4				
MFG-112	Machine Tool Fundamentals II	198	3		1				
MFG-202	CNC II: Programming & Operation	88	4						
MFG-204	Computer-Aided Manufacturing I	88	4						
WLD-150	Welding Processes	88	4						
TOTAL CUR	RRENT CREDITS:	- W. W. C.	23-25	TOTAL PR	OPOSED CREDITS:		24-25		

College Contact	Telephone No.	18	
E-Mail Address	Fax No.		
Chief Academic Officer or PTE Dean Signature		Date	4

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

College:	Clackamas Communit	y College	}			Date	12/7/17	
		CAREER	LEARNING	G ARI	EA			A III WX
☐ Ag, Foo	od & Natural Resource Syste		□ не			es		
☐ Arts, Ir	nformation & Communication	ns	□ Нι	ıman İ	Resou	rces		
☐ Busine:	□ Business & Management			dustri	al & E	ingineering	Systems	
		PROGRA	M INFORM	IATIO	ON			
APPROVED Program Title		APPROVED CIP Code (Include 7th & 8th digits used for OCCURS reporting.)			APPROVED Recognition Award		<u>Current</u> Credits	
(For Official Program Title, refer to your directory at <a href="http://www.ode.state.or.us/search/results/?id=232">http://www.ode.state.or.us/search/results/?id=232</a> )		6-diait CIP	Z <sup>n</sup> digit	8th digit				
AAS Title: Computer-Aided Manufacturing		15.1302				ate of Applied te (AAS) e	97	
Option Tit	tle**					□ <i>OPTIC</i> Degre	ON to AAS e	
Certificate	e Title: <u>Within</u> AAS Degree? 🛭 Y	'es** □ No				☐ Certifi Compl	cate of etion	
**Enter name	e of base degree in 'AAS Title' box			'				
	TY	the second second second	OGRAM AI		MEN	IT.		
☐ New P	rogram++	☐ Curric	ulum Revis	ion	·	✓ Revision	on in Progran	Credits
☐ Title C	hange for Program					Proposed	Total Credits:	98
	<b>Proposed</b> AAS Title:							
	<b>Proposed OPTION Title:</b>	N.						
Pi	roposed Certificate Title:							
□ SUSP	ENSION of Program	Reason for Su	spension:				<u> </u>	
	Suspension Effective Date:	_						

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

[List in a Defined Sequence of Courses Format, e.g., Quarter-to-quarter mapping.

C	URRENT CURRICULUM 20			PROPOSED CURRICULUM 2018-19					
0	[List entire curriculum as last appro				[List only course(s) to be amen				
Course Number	Course Title	Clock	Credits	Course Number	Course Title	Clock	Credits		
					tience Degree: 1st Year	THOUTS	CICCIC		
First Term			15 1,0000,00		delice beginser 2 Teal				
CDT-102	Sketching and Problem	66	3						
	Solving								
MFG-111	Machine Tool Fundamentals I	198	6		_				
MTH-050**	Technical Mathematics I	44	<sup>,</sup> 3	MTH-050**	Technical Mathematics I	44	4		
WR-101**	Communication Skills: Occupational Writing	33	3						
Second Term		Mara T							
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	198	6						
MFG-221	Materials Science	66	3						
	CAD/CAM program elective		3		0):				
	Computer-Aided Mar	nufacturir	ng Associate	of Applied So	ience Degree: 2 <sup>nd</sup> Year				
Fourth Term									
CDT-223	Inventor Fundamentals	66	3	1 - 1					
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	The state of the s								
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			11 2 C	Migration 1	or at AMERICAN	
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			. 1
MFG-280	Manufacturing Technology/CWE	216	4		,	
Computer-Ai	ided Manufacturing Program Ele	ctives				
Any course v	with a CDT, EET, MFG, RET or V	VLD pref	ix.			
substitute so	h specialized job training needs ome classes. Consult your instru chair for more information.					V
**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 CUR	RRENT CREDITS:		97	TOTAL PR	OPOSED CREDITS:	98

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)

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

College:	Clackamas Communit	y College				Date	12/07/17	
		CARFER	LEARNIN	G ARF	Δ	11-00-10		
☐ Ag, Foo	d & Natural Resource Syste			ealth Se		PS		1
	formation & Communication			ıman R				
	ss & Management					ngineering	Systems	
		PROGRA	M INFORM	ATIO	N		NAME OF THE PERSON	
	APPROVED Program Title  Icial Program Title, refer to your dire www.ode.state.or.us/search/results/?	ectory at	APPR CIP (Include 7 <sup>th</sup> used for	OVED Code	gits		PROVED ition Award	<u>Current</u> Credits
AAS Title:				2.30		ate of Applied se (AAS) e		
Option Tit	ile**						W to AAS	
Energy S Technicia	e Title: <u><i>within</i> AAS Degree? √ Y</u> ystems Maintenance nn — Career Pathway	es** 🗆 No	15.0303			√ Certifi Compl	cate of etion	23-25
**Enter name	of base degree in 'AAS Title' box						= "	
	TY		OGRAM AI k ALL That A		MEN	<b>VT</b>		
	rogram++		ulum Revis			✓ Revisi	on in Progran	Credits
☐ Title Cl	hange for Program						Total Credits:	24-25
	<b>Proposed</b> AAS Title:							
	Proposed OPTION Title:		v					
Pr	oposed Certificate Title:							
□ SUSPL	ENSION of Program	Reason for Su	spension:					
	Suspension Effective Date:							

<sup>++</sup>If new program is an additional award for an existing degree or certificate, complete 'Program Information' section for existing program. lis\i:\curriculum office\kelly\programs affected by mth-050\2017-18 program amendment energy systems maintenance technician cp.rtf\09202005(Revised 05/17/05)

CU	VRRENT CURRICULUM 2 [List entire curriculum as last appro			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		
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			M 1			
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						
<b>Energy System</b>	s Maintenance Technician Pro	gram Ele	ctives	-					
Select 6-8 elec	tive credits from the following	) <b>:</b>							
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	Welding Processes	88	4				T		
or WLD-102	Introduction to Welding	44	2						
TOTAL CURR	ENT CREDITS:		23-25	TOTAL PROPOSED CREDITS: 24-					

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

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(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 Communit	College: Clackamas Community College							
	CADEED	LEARNIN	C ADI	EA				
☐ Ag, Food & Natural Resource System				_	96			
☐ Arts, Information & Communication		☐ Health Services ☐ Human Resources						
☐ Business & Management					ngineering	Systems		
	<b>PROGRA</b>	M INFORI	TATIO	NC			AOV 5311	
APPROVED  Program Title  (For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)		APPROVED CIP Code (Include 7th & 8th digits used for OCCURS reporting.)			APPROVED  Recognition Award		<u>Current</u> Credits	
		6-digit CIP	Z <sup>th</sup> digit	8th digit				
AAS Title:				2/3/1		ate of Applied e (AAS)		
Option Title**					Degree			
Certificate Title: <u>Within AAS Degree?</u> √ Y Fire Science (Wildland)	'es** □ No	43.0203			√ Certific Comple	cate of etion	45-48	
**Enter name of base degree in 'AAS Title' box			,	<u>'</u>				
TY	and the transfer arranged their dynamic	OGRAM A		MEN	łT .		F 12-11	
■ New Program++	☐ Curric	ulum Revi	sion		✓ Revisi	on in Progran	n Credits	
☐ Title Change for Program	-34.2				Proposed'	Total Credits:	46-48	
Proposed AAS Title:								
<b>Proposed OPTION Title:</b>								
Proposed Certificate Title:				-				
☐ SUSPENSION of Program	Reason for Su	spension:						
Suspension Effective Date:								
++If new program is an additional award for an	existing degre	e or certificat	, compl	ete 'Pr	l ogram Informa	ation' section for e	xisting progra	

Course	Course	CURRENT CURRICULUM 2017-18 [List entire curriculum as last approved)			PROPOSED CURRICULUM 2018-19 [List only course(s) to be amended]					
First Term	Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits			
		THE T VI								
FRP-101	Basic Forest Management	33	3							
	Basic Forest Management Lab	33	1			===				
FRP-130	Introduction to Wildland Firefighting (S-130/S- 190/L-180)	44	2							
	Wilderness I: Psychology of Survival	22	2							
	English Composition or Occupational Writing		3-4							
	Fire Science (Wildland) program electives		4							
Second Term			تاريب		THE ESTAN MELELL	Шаді				
	Portable Pumps & Water Use (S-211)	20	2							
FUU-144	Wilderness II: Basic Land Navigation (S-244)	33	3		21					
FRP-246	Wilderness IV: Backcountry CPR/First Aid/AED	22	2							
	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		F(55)				100 Take	ar reginal			
F-V V-1 1 (1	Basic Wildland Fire Investigation (FI-110)	10	1							
	Advanced Firefighter Training (S-131/S-133)	12	1							
	Wilderness III: Weather of the Northwest	22	2							
	Followership to Leadership (L-280)	20	2							
FKP-75II	Wilderness VI: Basic Tool Use and Care	20	1							
	Basic Air Operations (S- 270)	16	1							
	Wildland Fire/Advanced CWE	108	3							
	Human Relations requirement		3-4							
	Fire Science (Wildland) program electives		1							

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

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

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 Current instructions, for http://v	orms, hando		er us	eful :	resources		
College: Clackamas Commun	ity College				Date	12/07/17	
	CADEED	LEARNING	ADI	FA.			
☐ Ag, Food & Natural Resource Sys				ervice	DC		
☐ Arts, Information & Communicati				Resou			
☐ Business & Management					ingineering	Systems	
	DDOCDA	M TNEODM	ATT/	201			
Annoven	PRUGRA	M INFORM		-	4.5	BRAVES	Current
APPROVED Program Title		APPRO CIP C (Include 7th used for C report	Code & 8 <sup>th</sup> d OCCUR	igits S	APPROVED Curr Recognition Award Cred		
(For Official Program Title, refer to your di http://www.ode.state.or.us/search/results.	rectory at  ?id=232	6-diait CIP	Z <sup>n</sup> digit	8th digit			
AAS Title:						ate of Applied ce (AAS) e	
Option Title**		I				ON to AAS	
Certificate Title: <u>Within AAS Degree?</u> Fitness Technology	Yes** √ No	31.0501	J	*	√ Certifi Compl	cate of etion	46-48
**Enter name of base degree in 'AAS Title' bo	x	•		1			
The state of the s		OGRAM AN		MEN	IT		
■ New Program++	☐ Curric	ulum Revisi	ion		✓ Revision	ion in Progran	n Credits
☐ Title Change for Program	.9% -				Proposed	Total Credits:	47-48
Proposed AAS Title:							
Proposed OPTION Title:							
Proposed Certificate Title:			Α				
☐ SUSPENSION of Program	Reason for Su	spension:					
Suspension Effective Date:					- 3		

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

CU	RRENT CURRICULUM 2 [List entire curriculum as last appr	017-18			ROPOSED CURRICULUR [List only course(s) to be ame		19
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
Fall Term						, 18 5	
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				The second			
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	POHEN TO THE TOTAL OF		or ala	OMI			W. 1
HE-201	Personal Training	33	3				
HE-223	Sports Nutrition	33	3				
PE-280	Physical Education/CWE	108	3		2/		
WR-101 or WR-121	Communication Skills: Occupational Writing English Composition	33-44	3-4	-			
	Fitness Technology program elective	33	4				
Fitness Techno	ology Program Electives	W ya				W_UAN_	
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,	, 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	<del>'-4</del> 8

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

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 fo	rm should be completed Current instructions, for http://ww	ms, hando		er us	eful	resources		
College:	Clackamas Communit	y College				Date	12/07/17	
		CAREER	LEARNING	ARI	:A			
☐ Ag, Foo	d & Natural Resource Syste	ems	☐ Hea	aith S	ervic	<b>2</b> S		
☐ Arts, In	formation & Communication	ns	☐ Hu	man I	Resou	rces		
☐ Busines	ss & Management		☐ Ind	lustri	al & E	ngineering	Systems	
		PROGRA	M INFORM	ATIC	ON			
APPROVED  Program Title  (For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)		APPRO CIP C (Include 7th cused for C reports 6-digit CIP	OVED Code & 8th di OCCUR	igits		PROVED ition Award	<u>Current</u> Credits	
	AAS Title:			<u>aigit</u>	<u>oigit</u>	Associate of Applied Science (AAS) Degree		
Option Tit	tle**					□ OPTIO	W to AAS	
	e Title: <u>Within AAS Degree?</u> DY hic Information Systen Ogy		15.1102		ı	√ Certific Compl		48
**Enter name	e of base degree in 'AAS Title' box							
	TY	and county was from the Paris	OGRAM AM		MEN	(T		
□ New P	rogram++	_	ulum Revisi			✓ Revisi	on in Progran	Credits
☐ Title Change for Program						Total Credits:	49	
4.50	<b>Proposed</b> AAS Title:		<del></del>					
	Proposed OPTION Title:							
Pr	roposed Certificate Title:							
□ SUSP	ENSION of Program	Reason for Su	ispension:					
	Suspension Effective Date:							

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

lis\i:\curriculum office\kelly\programs affected by mth-050\2017-18 program amendment geographic information systems technology certificate.rtf\09202005

(Revised 05/17/05)

CU	IRRENT CURRICULUM 20 [List entire curriculum as last appro			PR	ROPOSED CURRICULUM [List only course(s) to be ame		9
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		26-1-1				2 2	3500
CDT-224	Professional Web Design	22	1				
GIS-232	Data Collection & Application	60	3				
GIS-280	GIS/CWE	144	4			<u></u>	
GIS-282	ArcGIS II	66	3				
	Human Relations requirement (see page 82)		3				
Technical Elect	tives						
Any course wit	th a GIS or CDT prefix.			1,	I.,		
TOTAL CURR	RENT CREDITS:		48	TOTAL PR	OPOSED CREDITS:		49

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

255 Capitol Street NE Salem, OR 97310-0203 Office of Educational Improvement & Innovation

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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)

College:	Clackamas Communit	y College					Date	12/07/17	
		CAREER	LEARN	ING	ARE	Α			
	d & Natural Resource Syste			Hea	alth S	ervic	es		- 1
	formation & Communication	ns			man F				
√ Busine:	ss & Management			Inc	lustri	al & E	ngineering	Systems	
1 11		PROGRA	M INFO	RM	ATIC	N			
	APPROVED		Al	PPRO	OVED	1000000	API	PROVED	Current
Program Title				IP C			Recogn	ition Award	Credits
		A SELIM '=	(Includ		& 8th di OCCUR!				
/For Off	icial Program Title, refer to your dire	odoni od	Г	eport					1000
http://w	ww.ode.state.or.us/search/results/?	id=232)	6-digit	CIP	<u>Z"</u> digit	8th digit			
AAS Title:								ate of Applied	
								e (AAS)	
Option Tit	HATE						Degre		
Option III	lie **						Degre		
Certificate	e Title: <i>Within</i> AAS Degree? □ Y	es** □ No					√ Certifi	cate of	
Industria	al Maintenance Techno	logy –					Comp	etion	48
	cal Maintenance								
**Enter name	e of base degree in 'AAS Title' box						11		
	TY	PE OF PR	OGRAN k all Th			MEN	IT		
	rogram++	☐ Curric					✓ Revision	on in Progran	Credits
☐ Title C	hange for Program						Proposed	Total Credits:	49
	Proposed AAS Title:								
	<b>Proposed OPTION Title:</b>								<u> </u>
PI	oposed Certificate Title:								
□ SUSP	ENSION of Program	Reason for Su	spension:						
	Suspension Effective Date:			•		•			

<sup>++</sup>If new program is an additional award for an existing degree or certificate, complete 'Program Information' section for existing program. lis\i:\curriculum office\kelly\programs affected by mth-050\2017-18 program amendment industrial maintenance technology - mechanical maint. certificate.rtf\09202005 (Revised 05/17/05)

CU	VRRENT CURRICULUM 2 [List entire curriculum as last appro			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						CANADA MARK		
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		Î			
COMM-100	Basic Speech Communication	33	3					
Spring Term						4. 4c. st. 1-p. 241 (1-	13	
IMT-110	Preventative Maintenance	44	2			T		
MET-170	Introduction to Manufacturing Processes	33	3	,				
MFG-221	Materials Science	66	3	, 1				
MFG-280	Manufacturing Technology/CWE	72	2		8			
WR-101	Communication Skills: Occupational Writing	33	3					
-	Technical Elective		3					
Industrial Mai	ntenance Technology Progran	n Elective	S					
Any course wi prefix not incl	th a MFG, WLD, EET, GIS, SM uded in the Industrial Mainter her technical course with app	1, CDT, or nance Tec	r MET					
TOTAL CURI	RENT CREDITS:		48	TOTAL PR	OPOSED CREDITS:		49	

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

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)

	Current instructions, for
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<sup>++</sup>If new program is an additional award for an existing degree or certificate, complete 'Program Information' section for existing program.

CUI	RRENT CURRICULUM 20 [List entire curriculum as last appro	017-18		PROPOSED CURRICULUM 2018-19 [List only course(s) to be amended]					
Course Number	Course Title	Clock Hours	Credit s	Course Number	Course Title	Clock Hours	Credits		
	Industrial Maintenance	Technol	ogy Associ	ate of Applied	i Science Degree: 1st Year				
Fall Term				Mark a Married Tolling		100 F1000 - 15 F100 - 1			
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	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	L		l			
Spring Term									
IMT-110	Preventative Maintenance	44	2	63					
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	Technolo	ogy Associ	ate of Applied	l Science Degree: 2 <sup>nd</sup> 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	A TO 1999 1 2 12 1 20 1 10 10 10 10 10 10 10 10 10 10 10 10				bully in the state of the state				
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			- 11	
MFG-223	Materials Science & Practical Metallurgy	33	3				in
	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 Main	itenance Technology Progra	m Electiv	/es				
prefix not inclu	h a MFG, WLD, EET, GIS, S Ided in the Industrial Mainte her technical course with ap	nance T					
TOTAL CURR	ENT CREDITS:		97	TOTAL PRO	OPOSED CREDITS:		98-99

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

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	y College					Date	12/07/17		
	CAREER	LEAR	NING	ARE	Α				
☐ Ag, Food & Natural Resource Syste	ms	П	☐ He	alth S	ervic	25			
☐ Arts, Information & Communication		☐ Hu	man F	Resou	rces				
√ Business & Management			□ Inc	lustria	al & E	ngineering	Systems		
	PROGRA	M IN	FORM	ATIC	N				
<u>APPROVED</u> Program Title		(Inc	APPRO CIP C lude 7th sed for 0 report	OVED Code & 8th di OCCUR!	gits	APPROVED Recognition Award		<u>Current</u> Credits	
(For Official Program Title, refer to your direct http://www.ode.state.or.us/search/results/?id		6-dic	it CIP	Z <sup>th</sup> diait	8th diait		-,1111		
AAS Title:	AAS Title:						ate of Applied e (AAS)		
Option Title**							N to AAS		
Certificate Title: Within AAS Degree?  Industrial Maintenance Technol					1	√ Certific Comple		50	
**Enter name of base degree in 'AAS Title' box									
TY	PE OF PR		AM AN That Ap		MEN	ίΤ			
☐ New Program++	☐ Curric	ulum	Revisi	ion			<mark>on in Progran</mark>	Credits	
■ Title Change for Program						Proposed*	Total Credits:	51	
Proposed AAS Title:									
Proposed OPTION Title:									
Proposed Certificate Title:									
☐ SUSPENSION of Program	Reason for Su	spension	:					-	
Suspension Effective Date:									

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

CUI	RRENT CURRICULUM 20 [List entire curriculum as last appro	and the second second		PI	ROPOSED CURRICULUI  [List only course(s) to be amounted to be a mounted to be		19
Course Number	Course Title	Clock Hours	Credit	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			- 11 E. 15 E. 1				
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				-YC3'			
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	Ļ			9
WR-101	Communication Skills: Occupational Writing	33	3				
	Technical Elective		3				
Industrial Main	tenance Technology Progran	n Elective	s				
prefix not inclu	h a MFG, WLD, EET, GIS, SM Ided in the Industrial Mainter ner technical course with app	nance Tec					
	ENT CREDITS:		50	TOTAL PR	OPOSED CREDITS:		51

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

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)

	Current instructions, for
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<sup>++</sup>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.

CU	For a New Progr FRRENT CURRICULUM 20 (List entire curriculum as last appro	017-18		PROPOSED CURRICULUM 2018-19 [List only course(s) to be amended]					
Course Number	Course Title	Clock	Credits	Course Number	Course Title	Clock Hours	Credits		
	Manufacturing Te	chnology	Associate o	of Applied Sci	ence Degree: 1 <sup>st</sup> Year	WWIII 200			
First Term							Section 1		
MFG-104	Print Reading	33	2				1		
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	Miles War III II					Revolutivitie			
MFG-105	Dimensional Inspection	28	2		57				
MFG-109 or MFG-209	Computer Literacy for Technicians Programming and Automation for Manufacturing	33-39	3				3		
MFG-112	Machine Tool Fundamentals II	198	9			1			
MTH-080	Technical Mathematics II	44	3						
Third Term	Walley Market Street								
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		ê.	1	V		
WR-101*	Communication Skills: Occupational Writing	33	3						
Ī	Human Relations requirement (see page 82)		3						
	Manufacturing Te	chnology	Associate o	f Applied Sci	ence Degree: 2 <sup>nd</sup> Year				
Fourth Term									
MFG-113	Machine Tool Fundamentals III	198	9		1		2		
MFG-204	Computer-Aided Manufacturing I	88	4	<u> </u>		T.			
	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				Y
MFG-280	Manufacturing Technology/CWE	216	2				
*	General elective (any course 100 level or above)		3			***	
Manufacturin	g Technology Program Electives	5	2 - 3 Labor		Annes productive as a productive control	3 1	
	ee or more credits from the foll	owing:					
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	l.			
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				
Ī	Other technical courses with departmental approval		4				
plan to conting institution. It advisor or a se requirements	ollege transfer courses for theso nue your education at a higher of is recommended that you cons staff member in Student Service of the specific advanced progra	educatio ult with es for the	n a faculty e transfer chool.		i.i.		
TOTAL CUR	RENT CREDITS:		93	TOTAL PR	OPOSED CREDITS:		94

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

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 fo	rm should be completed Current instructions, for http://ww	ms, hando		er us	eful	resources			
College:	Clackamas Communit	y College				Date	12/07/17		
		CADEED	LEADNING	ADI				AAA WEEL CONSTRUCTION	
☐ Ag, Foo	d & Natural Resource Syste		LEARNING		ervic				
					Resou				
	ss & Management					ngineering	Systems		
		PROGRA	M INFORM	ATIC	N		348_7_7		
<u>APPROVED</u> Program Title		APPRO CIP C (Include 7th c used for C report	Code & 8 <sup>th</sup> di OCCUR	igits	APPROVED Recognition Award		<u>Current</u> Credits		
	icial Program Title, refer to your dire ww.ode.state.or.us/search/resuits/?		6-digit CIP	Z <sup>th</sup> digit	gth digit		35. 3		
AAS Title:			<u> </u>	<u>gign</u>		ate of Applied e (AAS)			
Option Tit	:le**					□ OPTIO Degree	W to AAS		
	e Title: <u><i>Within</i> AAS Degree? √ Y</u> turing Technology	'es** □ No	15.0613			√ Certificate of Completion		49	
**Enter name	e of base degree in 'AAS Title' box		•		•		·		
	TY		OGRAM AN		MEN	IT			
☐ New P	rogram++	☐ Curric	ulum Revisi	on		✓ Revision	on in Progran	Credits	
☐ Title C	hange for Program					Proposed*	Total Credits:	50	
	<b>Proposed</b> AAS Title:					-	_		
	<b>Proposed OPTION Title:</b>								
Pr	oposed Certificate Title:								
□ SUSPI	ENSION of Program	Reason for Su	spension:						
	Suspension Effective Date:					<u> </u>	Ţä.		

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

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		V IS TO				01/19/2004	
MFG-104	Print Reading	33	2				
MFG-107	Industrial Safety & First Aid	33	3				
MFG-111	Machine Tool Fundamentals I	198	9			100	
MTH-050*	Technical Mathematics I	44	3	MTH-050*	Technical Mathematics I	44	4
Second Term	THE RESIDENCE OF THE PERSON OF	U.S.				el montre	
MFG-105	Dimensional Inspection	28	2				
MFG-109 or MFG-209	Computer Literacy for Technicians Programming and Automation for	33-39	3				
	Manufacturing					<u> </u>	
MFG-112	Machine Tool Fundamentals II	198	9				
MTH-080	Technical Mathematics II	44	3				
Third Term		9188 - 2188 - 1	- Table of Lotter and	Mary II Continue		96 T	
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			-	
7	Human Relations requirement (see page 82)		3				
Manufacturing	<b>Technology Program Electives</b>	5					
Complete three	e or more credits from the foll	owing:					
CDT-102	Sketching & Problem Solving	66	3				
CDT-103	Computer-Aided Drafting I	88	4	1	He He		7
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			
plan to continu institution. It is advisor or a sta	lege transfer courses for these le your education at a higher e s recommended that you cons aff member in Student Service of the specific advanced progra	education ult with a facult s for the transf	y a		
TOTAL CURR	ENT CREDITS:	49	TOTAL PR	OPOSED CREDITS:	50

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

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, for http://ww		outs and oth te.or.us/sea				are located at	
College:	Clackamas Communit	y College				Date	12/19/17	
		CADEED	LEARNING	2 ADI	- A			97 - 315 - A
☐ Ag, Fog	d & Natural Resource Syste			alth S		DC .		
	formation & Communication			man I		•		
	ss & Management					ngineering	Systems	
		PROGRA	M INFORM	IATIO	N			i i i
	APPROVED Program Title		APPR CIP ( (Include 7 <sup>th</sup> used for report	Code & 8 <sup>th</sup> di OCCUR	igits		PROVED ition Award	<u>Current</u> Credits
	icial Program Title, refer to your dire ww.ode.state.or.us/search/results/?		6-digit CIP	Z <sup>th</sup> digit	g <sup>th</sup> digit			
AAS Title: Microele	ctronics Systems Techr	nology	15.0612				ate of Applied e (AAS)	99
Option Tit	tle**					OPTIO	Nto AAS	
Certificate	e Title: <i>Within</i> AAS Degree? □ Y	⁄es** □ No				☐ Certifi Compl	cate of etion	
**Enter name	e of base degree in 'AAS Title' box			!	!	N3		
	TY		OGRAM AI	And the second section is	MEN	IT		
☐ New P	rogram++		ulum Revis			☐ Revisi	on in Progran	Credits
	hange for Program						Total Credits:	100
	<b>Proposed</b> AAS Title:							
	<b>Proposed OPTION Title:</b>							
Pi	roposed Certificate Title:							
□ SUSP	ENSION of Program	Reason for Su	ispension:					
	Suspension Effective Date:							

<sup>++</sup>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.

			plete the Pr		culum section only.]		
C	URRENT CURRICULUM 20 [List entire curriculum as last appro			PR	COPOSED CURRICULUI [List only course(s) to be am		19
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock	Credits
	Microelectronics System	ns Techno	ology Assoc	iate of Applie	d Science Degree: 1st Year		arte .
First Term							
EET-112	Electronic Test Equipment & Soldering	66	3				
EET-137	Electrical Fundamentals I	88	4				18
MFG-107	Industrial Safety & First Aid	33	3			1	
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				38
Second Term		The state of the s			Kura		(موسودوا)
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		4,1-4,1				7 , 7	
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			1	
	Microelectronics Systen	ns Techno	ology Assoc	iate of Applie	d Science Degree: 2 <sup>nd</sup> Year		
Fourth Term				Carries Sein Carries			
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					AVE THE MICE	And Visit
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		27/				
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			
Microelectron	nics Systems Technology Progra	m Elect	ives			- White
	vith a CDT, EET, RET, SM, MFG e Microelectronics Systems Tec					
*Substitute of plan to conting institution. It advisor or a s	college transfer courses for the nue your education at a higher is recommended that you cons staff member in Student Servic s of the specific advanced program	se course education sult with es for th	es if you on a faculty se transfer			
	RENT CREDITS:	uni or 3	99	TOTAL PROPOSED CREDITS:		100

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

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**

Program Title  (For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)  AAS Title:  AAS Title:  Option Title**  Option Title:  CIP Code (Include 7th & 8th digits used for OCCURS reporting.)  6-digit CIP	e text.		resources a	efui r	er us		ms, hando	m should be completed Current instructions, for http://ww	
□ Ag, Food & Natural Resource Systems □ Health Services □ Arts, Information & Communications □ Human Resources □ Business & Management □ Industrial & Engineering Systems  PROGRAM INFORMATION  APPROVED Program Title  (For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/7id=232)  AAS Title: □ Associate of Applied Science (AAS) Degree  Option Title** □ Option Title:   Within AAS Degree? √ Yes** □ No Microelectronics Systems Technology  **Enter name of base degree in 'AAS Title' box    Average		12/07/17	Date	П			y College	Clackamas Communit	College:
□ Arts, Information & Communications □ Business & Management □ Industrial & Engineering Systems □ Industrial & Engineering Systems □ Industrial & Engineering Systems □ Industrial & Engineering Systems □ Industrial & Engineering Systems □ Industrial & Engineering Systems □ Industrial & Engineering Systems □ Industrial & Engineering Systems □ Industrial & Engineering Systems □ Industrial & Engineering Systems □ Industrial & Engineering Systems □ Industrial & Engineering Systems □ Industrial & Engineering Systems □ Industrial & Engineering Systems □ Industrial & Engineering Systems □ Cru □ Cru □ Cru □ Cru □ Cru □ APPROVED □ Recognition Award □ Cru □ Associate of Applied Science (AAS) □ Degree □ OPTION to AAS □ Degree □ OPTION to AAS □ Degree □ OPTION to AAS □ Degree □ OPTION to AAS □ Degree □ OPTION to AAS □ Cru				Α	ARE	EARNING	CAREER		
PROGRAM INFORMATION  APPROVED Program Title  (For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/7id=232)  AAS Title:  Option Title:  Certificate Title: Within AAS Degree? \( \text{Yes**} \) No Microelectronics Systems Technology  **Enter name of base degree in 'AAS Title' box  TYPE OF PROGRAM AMENDMENT (Check ALL That Apply)  New Program+ Title Change for Program  Proposed AAS Title:  Proposed OPTION Title:  Proposed OPTION Title:  Proposed Certificate Title			<b>es</b>	ervice	alth S	☐ Hea	:ms	d & Natural Resource Syste	☐ Ag, Food
PROGRAM INFORMATION  APPROVED Program Title  (For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/7id=232)  AAS Title:  Option Title:  Certificate Title: Within AAS Degree? \forall Yes** \square No Microelectronics Systems Technology  **Enter name of base degree in 'AAS Title' box  TYPE OF PROGRAM AMENDMENT (Check ALL That Apply)  New Program+ Title Change for Program Proposed AAS Title:  Proposed OPTION Title:  Proposed OPTION Title:  Proposed Certificate Title:  Proposed Certificate Title:  Proposed Certificate Title:  Proposed Certificate Title:  Proposed Certificate Title:  Proposed Certificate Title:  Proposed Certificate Title:			rces	tesou	man F	☐ Hu	ns	formation & Communication	Arts, Inf
APPROVED   CIP Code   (Include 7% & 8 st digits used for OCCURS reporting.)   6-digit CIP   2° digit   digit		Systems	ngineering S	al & E	lustri	☐ Ind		s & Management	Busines
APPROVED Program Title    CIP Code (Include 7º 8 ± 8º digits used for OCCURS reporting.)				N	ΔΤΤΟ	INFORM	PROGRA		
AAS Title:  Option Title**  Option Title*  Option Title*  Option Title*  Option Title*  Option Title*  Option Associate of Applied Science (AAS)  Degree  Option Title*  Option Associate of Applied Science (AAS)  Degree  Option Title*  Option Title*  Option Title*  Option Title*  Option Title*  Option Associate of Applied Science (AAS)  Degree  Option Title*  Op	<i>Current</i> Credits		The same of the sa	gits ;	OVED Code & 8 <sup>th</sup> di OCCUR! ing.)	APPRO CIP C (Include 7th t used for C report		Program Title	
AAS Title:  Option Title**  Option Title**  Certificate Title: Within AAS Degree? \frac{1}{2} ves** \cdot No Microelectronics Systems Technology  **Enter name of base degree in 'AAS Title' box  TYPE OF PROGRAM AMENDMENT (Check ALL That Apply)  New Program++ Title Change for Program Title Change for Program Proposed AAS Title:  Proposed OPTION Title: Proposed Certificate Title:				8 <sup>th</sup> diait	Z <sup>th</sup> digit	6-digit CIP			
Option Title**  Certificate Title: Within AAS Degree? √ Yes** □ No Microelectronics Systems Technology  **Enter name of base degree in 'AAS Title' box  TYPE OF PROGRAM AMENDMENT (Check ALL That Apply)  New Program++ □ Title Change for Program  Proposed AAS Title:  Proposed OPTION Title:  Proposed Certificate Title:			Science	A.3.1	<u> </u>				AAS Title:
Microelectronics Systems Technology  **Enter name of base degree in 'AAS Title' box   TYPE OF PROGRAM AMENDMENT (Check ALL That Apply)  New Program++  Title Change for Program  Proposed AAS Title:  Proposed OPTION Title:  Proposed Certificate Title:		Vto AAS						le**	Option Tit
TYPE OF PROGRAM AMENDMENT (Check ALL That Apply)  New Program++ Title Change for Program  Proposed AAS Title: Proposed OPTION Title:  Proposed Certificate Title:	55		37.6			15.0612			
(Check ALL That Apply)  □ New Program++ □ Title Change for Program  Proposed AAS Title:  Proposed OPTION Title:  Proposed Certificate Title:								of base degree in 'AAS Title' box	**Enter name
□ New Program++ □ Title Change for Program  Proposed AAS Title:  Proposed OPTION Title:  Proposed Certificate Title:			IT	MEN	Alberto History District	CONTRACTOR OF THE PROPERTY.	مورات والكار والمناش المناش المناش	TY	1 86 1
Proposed AAS Title: Proposed OPTION Title: Proposed Certificate Title:	Credits	n in Program	✓ Revisio					ogram++	☐ New Pr
Proposed OPTION Title: Proposed Certificate Title:	56	otal Credits:	<b>Proposed</b> T						
Proposed OPTION Title: Proposed Certificate Title:				•				<b>Proposed</b> AAS Title:	
Proposed Certificate Title:									
			- 17						
☐ SUSPENSION of Program  Reason for Suspension:						pension:	Reason for Sus		
Suspension Effective Date:								uspension Effective Date:	S

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

CL	URRENT CURRICULUM 20 [List entire curriculum as last appro			PR	COPOSED CURRICULUS [List only course(s) to be am		19
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
First Term			CONTRACTOR OF THE PARTY OF THE			400 to 200	
EET-112	Electronic Test Equipment & Soldering	66	3				
EET-137	Electrical Fundamentals I	88	4		1,055855		
MFG-107	Industrial Safety & First Aid	33	3				
MFG-109	Computer Literacy for Technicians	39	3		San San San San San San San San San San	1	
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			1	
Second Term			1000			SEATE OF	1 1 81
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		ipm (Market		and the second	The Company of the Co		
EET-127	Semiconductor Circuits I	88	4				
EET-142	Electrical Fundamentals III	88	4		,		
SM-170	Semiconductor Processing III	22	2			1	
SM-280	Electronics & Microelectronics/CWE	72	2		847		
-	Microelectronics Systems Technology program electives		3				
	Human Relations requirement (see page 82)		3				
Microelectroni	cs Systems Technology Progra	m Electiv	es				Agricus -
Any course wi	th a CDT, EET, RET, SM, MFG, Microelectronics Systems Tech	or WLD	prefix not	1			
*Substitute co plan to contine Institution. It i advisor or a sl	ollege transfer courses for these ue your education at a higher of is recommended that you constaff member in Student Services of the specific advanced progra	e courses education oult with a es for the	if you faculty transfer				
THE RESERVE AND ADDRESS OF THE PARTY OF THE	RENT CREDITS:	ani Ul SCI	55	TOTAL OF	OPOSED CREDITS:	_	56

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

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

	http://ww	ww.ode.sta	te.or.us/sea	rch/re	sults	<u>/?id=231</u>	<u></u>		
College:	Clackamas Communit	y College				Date	12/07/17		
		CAREER	LEARNING	3 ARI	A				
☐ Ag, Foo	d & Natural Resource Syste	ems	□ He	aith S	ervic	es			
🗖 Arts, In	formation & Communicatio	ns	□ Hu	man l	Resou	rces			
■ Busines	ss & Management		■ Industrial & Engineering Systems						
		PROGRA	M INFORM	IATIO	ON	X			
APPROVED Program Title  (For Official Program Title, refer to your directed http://www.ode.state.or.us/search/results/?id=			APPR CIP ( (Include 7 <sup>th</sup> used for repor	OVED Code & 8th di OCCUR	igits		<i>PROVED</i> lition Award	<u>Current</u> Credits	
			6-digit CIP	Z <sup>n</sup> digit	8 <sup>th</sup> digit				
AAS Title:							iate of Applied ce (AAS) e		
Option Tit	tle**					□ <i>OPTIO</i> Degre			
	e Title: <u><i>Within</i></u> AAS Degree? □ Y <b>chnology</b>	es** √ No	10.0203	2.52		√ Certifi Comp	cate of letion	50-60	
**Enter name	e of base degree in 'AAS Title' box		•	•					
	TY		OGRAM AI k ALL That A	,	MEN	IT			
☐ New P	rogram++	☐ Currio	ulum Revis	ion		✓ Revis	i <mark>on in Progran</mark>	Credits	
☐ Title C	hange for Program					Proposed	Total Credits:	51-60	
	<b>Proposed</b> AAS Title:						9		
	<b>Proposed OPTION Title:</b>								
Pr	oposed Certificate Title:								
□ SUSP	ENSION of Program	Reason for Su	spension:						
	Suspension Effective Date:							10	

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

	RENT CURRICULUM 20 List entire curriculum as last appro			PK			19
Course Number	Course Title	Clock Hours	Course   Course   Clock   Hours   Calculation   Calculat		Credits		
Fall Term				MILLE .			
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	Basic Speech Communication	33-44	3-4				
or COMM-126	Communication Between the Sexes						
or COMM-140	Introduction to Intercultural Communication		i				
or COMM-218	Interpersonal Communication	_					
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			4	
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					to Mark or the left code below that distance as at the distance and		
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		3					Г
	program basics							
	Music Technology		2					
	program electives							<u>L</u>
	logy Program Basics							_
	e credits from the following:	140	14	-		77	<b>-</b>	₩
MUP-100	Individual Lessons: Non- Music Majors	10	1					L
MUS-101	Music Fundamentals	33	3		1			
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		1			
MUS-135	Group Voice: Anyone Can Sing	22	1	Т				
MUS-136	Group Voice: Anyone Can Sing	22	1					
MUS-137	Group Gultar 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 Techno	logy Program Electives			72.			us)	
	credits from the following:				-			
MUP-100	Individual Lessons: Non- Music Majors	10	1					Γ
MUP-102	Wind Ensemble	44	2					
MUP-104	Pep Band/Combo- Improv	22	1					Γ
MUP-105	Jazz Ensemble	44	2				1	一
MUP-121	Choral Ensemble: The Roots Project	30	1	1				Г
MUP-122	Chamber Choir	55	2	1	1		1	
MUP-125	Vocal Jazz Ensemble: Mainstream	55	2	1	-			Γ
MUP-141	College Orchestra	44	2		10		1	Т
MUP-150	Contemporary Music Ensemble	22	1					Г
MUP-241	College Orchestra	44	1					一
MUS-101	Music Fundamentals	33	3				1	1

TOTAL CURI	RENT CREDITS:		50-60	TOTAL PROPOSED CREDITS:	51-60
MUS-247	Sound for Media	33	3		100
MUS-206	Music Literature: History of Rock	44	4		
MUS-205	Music Literature: History of Jazz	44	4		
MUS-171	Sound Design	22	2		
MUS-170	Introduction to Scoring Music for Media	22	2	je	
MUS-161	Songwriting II	22	2		
MUS-160	Songwriting I	22	2		
MUS-149	Advanced Pro Tools Editing Techniques	11	1		
MUS-148	Live Sound Engineering	33	3		
MUS-147	Music, Sound & Moviemaking	11	1		
MUS-145	Introduction to Digital Sound, Video & Animation	33	3		
MUS-138	Group Guitar II	22	1		
MUS-137	Group Guitar I: Guitar for Dummies	22	1		
MUS-136	Group Voice: Anyone Can Sing	22	1	G ÷	
MUS-135	Group Voice: Anyone Can Sing	22	1		
MUS-134	Group Voice: Anyone Can Sing	22	1		
MUS-133	Group Piano: Piano for Pleasure	22	1		
MUS-132	Group Piano: Piano for Pleasure	22	1		
MUS-131	Group Piano: Piano for Pleasure	22	1		
MUS-130	Music & Media: Sex, Drugs, Rock & Roll	11	1		
MUS-106	Audio Recording at Home	11	1		
MUS-105	Music Appreciation	33	3		
MUS-103	Music Fundamentals	33	3		
MUS-102	Music Fundamentals	33	3		

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

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

our circ iii		vw.ode.sta						are located at	L
College: Clackama	College: Clackamas Community College						Date	12/07/17	
		CAREER	LEARI	VINC	ARI	Α			
☐ Ag, Food & Natural I	Resource Syste	ms	E	] He	alth S	ervice	25		
☐ Arts, Information & Communications			C	Hu	man f	Resou	rces		
Business & Manager	ment			] Inc	lustri	al & E	ngineering	Systems	
		PROGRA	M INF	ORM	ATT	)N			
A DDI	POVED	TROOKA	and the second second		OVED		ADI	PROVED	Current
APPROVED Program Title			(Inclu use	CIP (	Code & 8th di DCCUR	gits		ition Award	Credits
(For Official Program Title, refer to your directory at <a href="http://www.ode.state.or.us/search/results/7id=232">http://www.ode.state.or.us/search/results/7id=232</a> )		6-digit		Z <sup>n</sup> digit	8th digit				
AAS Title:								ate of Applied e (AAS) e	
Option Title**							Degree	W to AAS	
Certificate Title: <u>Within</u> Occupational Skills		es** √ No	32.01	L <b>07</b>			<ul><li>✓ Certificate of Completion</li><li>48</li></ul>		
**Enter name of base degree	in 'AAS Title' box		•••						
	TY	PE OF PR (Chec	OGRAI k ALL T		Andrewson Street	MEN	IT		
■ New Program++		☐ Curric	ulum R	evis	on		✓ Revisi	on in Progran	Credits
☐ Title Change for P	rogram							Total Credits:	49
Propose	ed AAS Title:								
Proposed 0	PTION Title:								
Proposed Cert	ificate Title:								
☐ SUSPENSION of	Program	Reason for Su	spension:						
Suspension E	ffective Date:			u:					

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

	[List in a Defined Sequ	uence of (	Courses For		ENT uarter-to-quarter mapping. iculum section only.]			
C	URRENT CURRICULUM 2 [List entire curriculum as last appro			PR	ROPOSED CURRICULUM [List only course(s) to be ame		19	
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Clock			
Program Requ	uirements						Target H	
OST-180	Occupational Skills Training/CWE	864	24					
	Occupational related courses		15	1 _ 4				
Related Instru	ction Requirements		S to year		History (city)			
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)	= 11	3					
TOTAL CUR	RENT CREDITS:		48	TOTAL PR	OPOSED CREDITS:		49	

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

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**

This fo	rm should be completed Current instructions, for http://ww	ms, hando		er us	eful	resources		
College:	Clackamas Communit	y College				Date	12/19/17	
		CARFFR	LEARNING	ARI	Δ.			
☐ Ag, Foo	d & Natural Resource Syste			alth S		es		
	formation & Communication			man l		·· <del>-</del> ·		
Busines	ss & Management		□ Inc	lustri	ai & E	ngineering	Systems	
		PROGRA	M INFORM	ΔΤΤ	)N		VI - S	
<u>APPROVED</u> Program Title		APPRO CIP ( (Include 7 <sup>th</sup> used for ( report	OVED Code & 8th di OCCUR	gits	APPROVED Current Credit			
	icial Program Title, refer to your dire ww.ode.state.or.us/search/results/?		6-digit CIP	Z <sup>th</sup> diait	8th diait			
AAS Title: Renewal	ole Energy Technology		15.0303			<ul><li>✓ Associate of Applied Science (AAS)</li><li>Degree</li></ul>		96-97
Option Ti	tle**					Degree	/V to AAS	
Certificate	e Title: <i>Within</i> AAS Degree? □ Y	'es** □ No				☐ Certific		
**Enter name	e of base degree in 'AAS Title' box			<u> </u>		= =		
	TY		OGRAM AN		MEN	¥T		
☐ New P	rogram++		ulum Revis			☐ Revisi	on in Progran	Credits
garriero .	hange for Program				31		Total Credits:	97-98
	<b>Proposed</b> AAS Title:							
	<b>Proposed OPTION Title:</b>							77
PI	roposed Certificate Title:				E)		-	
□ SUSP	ENSION of Program	Reason for Su	spension:					
	Suspension Effective Date:							

<sup>++</sup>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.

Cl	URRENT CURRICULUM 2		-	PROPOSED CURRICULUM 2018-19				
Course	[List entire curriculum as last appro	Clock		Course	[List only course(s) to be amer	Clock		
Number	Course Title	Hours	Credits	Number	Course Title	Hours	Credits	
	Renewable Energy	Technolog	y Associate	of Applied Scie	ence Degree: 1 <sup>st</sup> Year			
First Term						CO. 2 4		
MFG-109	Computer Literacy for Technicians	39	3		_		11.0	
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		S-== 2	2 20 (2)					
MET-170	Intro to Manu Processes	33	3			L		
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					
A SECURIOR OF	Renewable Energy 1	rechnolog	y Associate	of Applied Scie	ence Degree: 2 <sup>nd</sup> Year			
Fourth Term		10						
EET-215	Electromechanical Systems I	44	2					
EET-239	Principles of Troubleshooting II	44	2					
GEO-100 or GEO-110	Introduction to Physical Geography Cultural & Human Geography	44-66	3-5	GEO-100 or GEO-110	Introduction to Physical Geography Cultural & Human Geography	44-66	3-4	
or GEO-130	Introduction to Environmental Geography		11	or GEO-130	Introduction to Environmental			
or GIS-201	Introduction to Geographic			or GIS-201	Geography			

	Information System				Introduction to Geographic Information System		
IMT-104	Reading Schematics & Symbols	33	2		10		
RET-213	Renewable Energy III: Installation & Maintenance	66	3				
- <b>-</b>	Renewable Energy Technology program elective		3			<b>2</b>	
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				X THE LOCAL PROPERTY OF THE PARTY OF THE PAR			
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	; •		4	
WLD-150	Welding Processes	88	4				
	Renewable Energy Technology program elective	88	3			E.	,
Renewable E	nergy Technology Program Elec	tives					Time 1
Any course v WLD prefix.	vith a CDT, EET, ERM, GIS, MET	, MFG,	RET, SM or				
TOTAL CUR	RENT CREDITS:		96-97	TOTAL PR	OPOSED CREDITS:		97-98

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

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**

This fo	rm should be completed Current instructions, for http://ww	ms, hando		er us	eful	resources		
College:	Clackamas Communit	y College				Date	12/07/17	
		CAREER	LEARNING	ARI	A			- 0 14
☐ Ag, Foo	d & Natural Resource Syste	ems	☐ He	alth S	ervic	es		
☐ Arts, In	formation & Communication	ns	□ Hu	man I	Resou	rces	14	
■ Busines	s & Management		□ Inc	lustri	al & E	ngineering	Systems	
		PROGRA	M INFORM	ATIC	ON			
APPROVED  Program Title  (For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)		APPROCIPO	OVED Code & 8 <sup>th</sup> di OCCUR: ing.)	igits S	APPROVED Cure Recognition Award			
AAS Title:			<u>digit</u>	<u>digit</u>		ate of Applied e (AAS)		
Option Tit	:le**					OPTIO Degree	W to AAS	
	e Title: <u><i>Within</i> AAS Degree? √ Y</u> ble Energy Technology	es** 🗆 No	15.0303			√ Certific Comple		48
**Enter name	of base degree in 'AAS Title' box							
	TY	and the confidence of the contract of	OGRAM AN	Charles and the	MEN	IT		
☐ New P	rogram++	☐ Curric	ulum Revisi	on		✓ Revisi	on in Progran	Credits
☐ Title C	hange for Program	1007					Total Credits:	49
	Proposed AAS Title:					7-		
	Proposed OPTION Title:							
	oposed Certificate Title:							
-	ENSION of Program	Reason for Su	spension:					
	Suspension Effective Date:							

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

Cl	URRENT CURRICULUM 2 [List entire curriculum as last appro			PR	(OPOSED CURRICULU) [List only course(s) to be ame		19
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
First Term			Juli III VIII		Na section and the section of		
MFG-109	Computer Literacy for Technicians	39	3				
MFG-130	Basic Electricity I	33	3	L	Ball (y).	/	
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		San San San San San San San San San San		THE RESERVE	AND DESCRIPTION OF THE PARTY OF THE		a - 1,
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		8		
RET-280	Renewable Energy/CWE	72	2				
WR-101	Communication Skills: Occupational Writing	33	3	1			
••	Human Relations requirement (see page 82)		3				
TOTAL CURI	RENT CREDITS:		48	TOTAL PR	OPOSED CREDITS:		49

College Contact	Tele	ohone No.	v =   -
E-Mail Address	Fax I	<b>40.</b>	
Chief Academic Officer <i>or</i> PTE Dean Signature		Date	

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**

This fo	rm should be completed Current instructions, for http://w	ms, hando		er us	eful	resources a			
College:	College: Clackamas Community College				Date		12/19/17		
		CARFER	LEARNING	ARI	FΔ		3		
☐ Ag, Foo	od & Natural Resource Syste		☐ He			25			
	formation & Communication				Resou				
	ss & Management					ngineering	Systems		
		PROCE	M THEODIN	A T-T (	NA1				
APPROVED Program Title			APPRO CIP C (Include 7 <sup>th</sup> used for C	INFORMATION  APPROVED  CIP Code (Include 7th & 8th digits used for OCCURS reporting.)			APPROVED  Recognition Award		
	icial Program Title, refer to your dire ww.ode.state.or.us/search/results/?		6-digit CIP	Z <sup>th</sup> digit	8th digit				
AAS Title: Welding Technology		48.0508				te of Applied (AAS)	97		
Option Title**						Degree	V to AAS		
Certificate	e Title: <u><i>Within</i> A</u> AS Degree? 🛭 Y	'es** □ No				☐ Certific			
**Enter name	e of base degree in 'AAS Title' box				I				
Ere v	TY		OGRAM AN		MEN	IT	avii, a		
			ulum Revision			☐ Revision in Program Credit			
☐ Title C	hange for Program	2467,0				Proposed Total Credits: 9			
	<b>Proposed</b> AAS Title:								
	<b>Proposed OPTION Title:</b>		·			•			
Pr	oposed Certificate Title:								
□ SUSP	ENSION of Program	Reason for Su	spension:						
	Suspension Effective Date:								

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

[List in a Defined Sequence of Courses Format, e.g., Quarter-to-quarter mapping.

	RENT CURRICULUM 2 Ist entire curriculum as last appro	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
	Welding Tech	nology As	sociate of A	pplied Scienc	e Degree: 1st Year		
First Term						STALL VALUE	
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			Latin P			Asserted the	b Martin
MFG-109	Computer Literacy for Technicians	39	3		****		
WLD-113 or WLD-113A	Gas Metal Arc Welding/Gas Metal Arc Welding/Flux-Core Arc Welding (Wirefeed) Gas Metal Arc	176	8				
and WLD-113B	Welding/Flux-Core Arc Welding (Wirefeed)						
WLD-200	Welders' Print Reading II	33	3		ACAP SEC		
WR-101*	Communication Skills: Occupational Writing	33	3		W.	r	
Third Term		a - Page	executed -	The second of			
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		V6004M		
WLD-280	Welding Technology/CWE	72	2				
	Human Relations requirement (see page 82)		3				
	Welding Techr	nology Ass	ociate of A	pplied Scienc	e Degree: 2 <sup>nd</sup> Year		
Fourth Term			VERSE BUILD	DAMES -			
MFG-221	Materials Science	66	3				
WLD-211	Advanced Shielded Metal Arc Welding	88	4			,	
WLD-250	Welding Fabrication I	88	4				

	Beginning Project							<u>L.</u> .
	Welding Technology program elective		3					
Fifth Term						C BUILDY	i i i i i i	MIT SHE
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				MARKET TO	No. of the last of			
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	1	4					
plan to continuinstitution. It is advisor or a strequirements	ollege transfer courses for thes ue your education at a higher is recommended that you const caff member in Student Service of the specific advanced progressions.	education sult with a fa es for the tr	aculty ansfer					
	nology Program Electives			191			1	
with approval.								
TOTAL CURK	RENT CREDITS:		97	TOTAL	. PROPOSED CREDI	TS:		98
College Cor	ntact				Telephone No.			
E-Mail Addı	ress				Fax No.			
	emic Officer <i>or</i>		112			Date		

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

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

	For a New Programmer RENT CURRICULUM 2 ist entire curriculum as last appro	017-18	nes all	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			Supplied by				A STATE OF THE STA	
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						Nes serie		
MFG-109	Computer Literacy for Technicians	39	3	1				
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			potavine z	WINE .				
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		A			
plan to continue y institution. It is re advisor or a staff requirements of the	e transfer courses for these our education at a higher of commended that you cons member in Student Service ne specific advanced progra	education ult with a es for the	faculty transfer ool.					
TOTAL CURREN	TCREDITS:		54	TOTAL PR	OPOSED CREDITS:		55	

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