

	Presenter	Action
1. Welcome and Introductions	Chair	
2. Approval of Minutes	Chair	Approval
3. Consent Agenda a. Course Number Changes b. Course Title Change c. Reviewed Outlines for Approval	Chair	Approval
4. Course and Program Approvals a. Renewable Energy Technology (RET) Changes a. Course Credits/Hours Change: RET-200 b. Amendment: RET AAS c. Amendment: RET CC d. Amendment: Energy Systems Maintenance Technician CPCC b. Amendment: AS, Renewable Energy Engineering, OIT c. New Program: Associate of Science Transfer (AST) Business	Mike Mattson Curriculum Office Bev Forney	Approval/22.SU Approval/22.SU Approval/22.SU
5. Old Business a. Course Review Helpful Tips i. Gen Ed SLOs	Chair	Info
6. New Business a. WRD-098ES	Amanda Coffey	Info
7. Closing Comments a.		

Present: ASG, Dustin Bare, Nora Brodnicki, Rick Carino, Amanda Coffey, Jeff Ennenga, Megan Feagles (Recorder), Bev Forney, Sharron Furno, Sue Goff, Dawn Hendricks, Shalee Hodgson, Kerrie Hughes (Alternate Chair), Kara Leonard, Lupe Martinez, Mike Mattson, Patricia McFarland, Tracy Nelson, Scot Pruyn (Chair), Cynthia Risan, Terrie Sanne, Charles Siegfried, Tara Sprehe, Sarah Steidl, Dru Urbassik, Andrea Vergun, Helen Wand, Jim Wentworth-Plato

Guests: James Bryant-Trerise, Chris Konieczka, John Phelps, Joan San-Claire

Absent: George Burgess, Elizabeth Carney, Eden Francis, Jason Kovac, Alice Lewis, David Plotkin, Lisa Reynolds

1. Welcome & Introductions

2. Approval of Minutes

- a. Approval of the April 15, 2022 minutes

Motion to approve, approved

3. Consent Agenda

- a. Course Number Changes
b. Course Title Change
c. Reviewed Outlines for Approval

Motion to approve, approved

4. Course and Program Approvals

a. **Course Hours, Credits Change:** MUS-189

- i. Megan Feagles presented for Lars Campbell
ii. Changing from 10 LECT hours to 11 LECT hours since this class meets during finals week. No credit change.

Motion to approve, approved

b. **New Courses:** ENG-243

- i. James Bryant-Trerise presented
ii. From outline: A major reason for this course is to continue to diversify our curriculum...Over time we have gradually expanded globally, and this proposed course continues that effort. This course in particular is needed because knowledge of anything African is, in general, woefully inadequate despite the continent's being the 2nd-largest on Earth and containing 16% of its population...

Motion to approve, approved

c. **Organic Farming CC Program Amendment**

- i. Chris Konieczka presented
ii. Only change is adding HOR-246 to electives. The course is an OSU-articulated course.

Motion to approve, approved

d. **Course Inactivation:** BA-222

- i. Joan San-Claire presented
ii. BA-240 is replacing BA-222
iii. Both courses contain the same content but BA-240 is a course that directly articulates for business transfer students headed to OSU, where it is a required lower-division course.
iv. This change broadened the appeal of this course beyond the Accounting AAS program and assists any Accounting AAS program students who decide to transfer.

Motion to approve, approved

e. **Welding Amendments**

- John Phelps presented
i. Welding Technology AAS
1. Specifying a list of elective courses instead of "any MFG or WLD" course. Changing elective credits in term 4 to 2-3 credits, overall credits change from 94 to 93-94.

2. Has it been considered to add FYE-101 to the program? John will talk to the AUWD department about potentially adding the course to the beginning of the program.
- ii. Entry Level Welding Technician CPCC
 1. Changing title to Entry Level Welder
 2. Specifying courses in the program instead of choosing from a list of electives.
 3. Two terms of welding-only courses. Students could start any term.
 4. Credits change from 21-22 credits to 23 credits.

Motion to approve, approved

f. **MFG Course Inactivations**

- i. Mike Mattson presented
- ii. MFG-111, 112, 113, 200, 201, 202, 203, 204, 205, 206, 210, 211

Old Course	New Course
MFG-111	MTT-111
MFG-112	MTT-112
MFG-113	MTT-113
MFG-201	MTT-121
MFG-202	MTT-122
MFG-203	MTT-123
MFG-204	MTT-141
MFG-205	MTT-241
MFG-206	MTT-242

- iii. Was not clear at the time the MTT courses were created that they would be replacing the MFG courses. Inactivating the MFG courses now for clean-up.

Motion to approve, approved

5. Old Business

a. **Alternate Chair**

- i. Jim Wentworth-Plato volunteered to be Alternate Chair for one year.

b. **ISP 161 Course Creation, Edits, Inactivation, and Reactivation**

- i. Dru Urbassik presented
- ii. Went back to ISP and updated the language to include Related Instruction
- iii. Will go to College Council and President's Council.

6. New Business

a. **ISP 181 Related Instruction**

- i. Dru Urbassik presented
- ii. This ISP might need to be reviewed sometime soon. There is potential for a General Education ISP since CCC has different requirements than the State.

b. **Course Review Helpful Tips**

Scot Pruyn presented

- i. Library Resources
 1. On the course outline: Does this course uses Library Resources?
 2. Scot will ask SD what the Library needs from this question on the outline.
- ii. Gen Ed SLOs
 1. Tabled for next time

c. **CourseLeaf Testing**

- i. Dru Urbassik
- ii. Looking for volunteers to test out the system in mid-June.
 1. Lupe Martinez, Elizabeth Carney, Sharron Furno

7. Closing Comments

- a. Please volunteer for the Graduation Ceremony
- b. Study Aboard Ireland has a flyer that they'd like help sending out

-Meeting Adjourned-

Next Meeting: May 20, 2022 (8-9:30am)



May 20, 2022

Course	Current Hours/Credits	Proposed Hours/Credits
RET-200	44 LECT/4 Credits	22 LECT/2 Credits

Clackamas Community College
Online Course/Outline Submission System

Show changes since last approval in red

Section #1 General Course Information

Department: IDTD

Submitter

First Name: Abe
Last Name: Fouhy
Phone: 3659
Email: abef

Course Prefix and Number: RET - 200

Credits: 2

Contact hours

Lecture (# of hours): 22
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 22

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

Course Title: Renewable Energy Systems

Course Description:

This course provides a survey of various renewable energy systems. Participants will learn about the benefits and limitations of each type of energy source as well as their functional principles. Students will participate in several field learning exercises related to energy systems. The intended audiences are technical students wishing to explore the Renewable Energy field and students from the humanities and social sciences wanting a better understanding of this socially important technology.

Type of Course: Career Technical Preparatory

Is this class challengeable?

Yes

Can this course be repeated for credit in a degree?

No

Is general education certification being sought at this time?

No

Does this course map to any general education outcome(s)?

No

Is this course part of an AAS or related certificate of completion?

Yes

Name of degree(s) and/or certificate(s): Manufacturing Programs

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

Are there any requirements or recommendations for students taken this course?

No

Are there similar courses existing in other programs or disciplines at CCC?

No

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F or Pass/No Pass

Audit: Yes

When do you plan to offer this course?

✓ Fall

Is this course equivalent to another?

If yes, they must have the same description and outcomes.

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

Yes

Student Learning Outcomes:

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

1. explain the First Law of Thermodynamics,
2. list the four basic energy forms,
3. describe 8 major sources of renewable energy,
4. describe the principles of each of the sources of renewable energy,
5. explain benefits of each of the sources of renewable energy,
6. explain environmental impact and safety of each source of renewable energy,
7. identify issues around sustainable energy sources,
8. evaluate an energy system based on economic and environmental considerations,
9. create a model of a small energy system,
10. design and develop a small-scale renewable energy system to power a device.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Introduction to Renewable Energy.
2. Solar Thermal Energy.
3. Solar Photovoltaics.
4. Bioenergy.
5. Hydroelectricity.
6. Tidal Power.
7. Wind Energy.
8. Wave Energy.
9. Geothermal Energy.
10. Energy System Integration.

Does the content of this class relate to job skills in any of the following areas:

- | | |
|--------------------------------------|------------|
| 1. Increased energy efficiency | Yes |
| 2. Produce renewable energy | Yes |
| 3. Prevent environmental degradation | Yes |
| 4. Clean up natural environment | No |
| 5. Supports green services | Yes |

Percent of course: 100%

First term to be offered:

Next available term after approval

:

Program	Implementation
Renewable Energy Technology AAS	2022/SU
Renewable Energy Technology CC	2022/SU
Energy Systems Maintenance Technician CPCC	2022/SU



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

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

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

College:	Clackamas Community College	Date	
-----------------	------------------------------------	-------------	--

CAREER LEARNING AREA

<input type="checkbox"/> Ag, Food & Natural Resource Systems	<input type="checkbox"/> Health Services
<input type="checkbox"/> Arts, Information & Communications	<input type="checkbox"/> Human Resources
<input type="checkbox"/> Business & Management	<input type="checkbox"/> Industrial & Engineering Systems

PROGRAM INFORMATION

<u>APPROVED</u> Program Title	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)	6-digit CIP	7 th digit	8 th digit		
	AAS Title: Renewable Energy Technology AAS.RNEWNRGYTECH	15.0303			<input checked="" type="checkbox"/> AAS (90-108 credits)
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Related Certificates: Energy Systems Maintenance Technician CP Renewable Energy Technology Certificate				<input type="checkbox"/> Certificate of Completion	

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

LAST AMENDMENT APPROVED ON 12/06/19

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: 98-101
<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.]

<i>CURRENT CURRICULUM 21-22</i>				<i>PROPOSED CURRICULUM 22-23</i>			
<small>[List entire curriculum as last approved]</small>				<small>[List only course(s) to be amended]</small>			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Renewable Energy Technology Associate of Applied Science Degree: 1st Year							
Fall Term							
MFG-109	Computer Literacy for Technicians	33	3	Move to 2 nd Term			
MFG-130	Basic Electricity I	33	3				
MTH-050	Technical Mathematics I	44	4				
RET-200	Renewable Energy Systems	44	4	RET-200	Renewable Energy Systems	22	2
RET-240	Alternative Fuels	88	4	Move to 4 th Term			
				EET-139	Principles of Troubleshooting I	33	2
				IMT-104	Reading Schematics and Symbols	22	2
				--	Human Relations requirement (see page 82)		3
Winter Term							
EET-139	Principles of Troubleshooting I	33	2	Move to 1 st Term			
MFG-107	Industrial Safety & First Aid	33	3	Move to 3 rd Term			
MFG-131	Basic Electricity II	33	3				
MTH-080	Technical Mathematics II	33	3				
RET-209	Renewable Energy I: Energy Efficiency	66	3				
				IMT-120	Industrial Machinery I	66	3
				MFG-109	Computer Literacy for Technicians	33	3
				MFG-221	Materials Science	66	3
Spring Term							
MET-170	Introduction to Manufacturing Processes	33	3	REMOVE			
MFG-103	Machining for Fabrication & Maintenance	66	3	Move to 4 th Term			
RET-211	Renewable Energy II: System Fundamentals	66	3				
RET-280	Renewable Energy/CWE	72	2	Move to 6 th Term			
WR-101	Communication Skills: Occupational Writing	33	3	WR-101 Or WR-121	Communication Skills: Occupational Writing Or English Composition	33-44	3-4
--	Human Relations requirement (see page 82)		3	Move to 1 st Term			

				IMT-220	Industrial Machinery II	66	3
				MFG-107	Industrial Safety & First Aid	33	3
				MFG-132	Basic Electricity III	33	3
Renewable Energy Technology Associate of Applied Science Degree: 2 nd Year							
Fall Term							
EET-239	Principles of Troubleshooting II	33	2	REMOVE			
GEO-100 Or GEO-110 Or GEO-130 Or GIS-201	Introduction to Physical Geography or Cultural & Human Geography or Introduction to Environmental Geography or Introduction to Geographic Information Systems	44-66	3-4	REMOVE			
IMT-104	Reading Schematics and Symbols	22	2	Move to 1 st Term			
IMT-215	Electromechanical Systems I	44	2	REMOVE			
RET-213	Renewable Energy III: Installation & Maintenance	66	3				
--	Renewable Energy Technology program elective		3	REMOVE			
				IMT-230 Or MFG-103 Or WLD-150	Principles of Troubleshooting I or Introduction to Heating, Ventilation, and Air Conditioning or Machining for Fabrication & Maintenance or Welding Processes	66-88	3-4
				EET-215	Technical Mechanics	66	3
				IMT-108	Rigging and Lifting	44	2
				RET-240	Alternative Fuels	88	4
Winter Term							
IMT-223	Instrumentation & Controls	66	3	Move to 6 th Term			
MFG-140	Principles of Fluid Power	66	3				
MFG-209	Programming & Automation for Manufacturing	33	3				
RET-215	Renewable Energy IV: Systems Design	66	3				
--	Renewable Energy Technology program elective		3	REMOVE			

				EET-225	Mechatronics I	44	2
				EET-233	Programmable Logic Controllers I	33	3
				--	CDT Elective		3
Spring Term							
EET-233	Programmable Logic Controllers I	33	3	Move to 5 th Term			
MFG-221	Materials Science	66	3	Move to 2 nd Term			
RET-217	Renewable Energy Capstone Project	66	3				
RET-280	Renewable Energy/CWE	72	2	HD-209 Or RET-280	Job Search Skills Or Renewable Energy/CWE	33-144	3-4
WLD-150	Welding Processes	88	4	Move to 4 th Term			
--	Renewable Energy Technology program elective		3	REMOVE			
				EET-234	Programmable Logic Controllers II	33	3
				EET-235	Mechatronics II	44	2
				IMT-223	Instrumentation & Controls	66	3
				RET-220	SCADA Fundamentals	66	3
Renewable Energy Technology Program Electives							
Any course with a CDT, EET, GIS, MET, MFG, RET, SM, or WLD prefix not included in the Renewable Energy Technology Program.				REMOVE			
				CDT Electives			
				Any course with a CDT prefix not included in the Renewable Energy Technology Program.			
TOTAL CURRENT CREDITS:			97-98	TOTAL PROPOSED CREDITS:			98-101

College Contact	Industrial Technology Department	Telephone No.	3318
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature			Date 5/2/22



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	
-----------------	-----------------------------	-------------	--

CAREER LEARNING AREA

<input type="checkbox"/> Ag, Food & Natural Resource Systems	<input type="checkbox"/> Health Services
<input type="checkbox"/> Arts, Information & Communications	<input type="checkbox"/> Human Resources
<input type="checkbox"/> Business & Management	<input type="checkbox"/> Industrial & Engineering Systems

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Renewable Energy Technology AAS				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <u>Within</u> AAS Degree? <input checked="" type="checkbox"/> Yes** <input type="checkbox"/> No Renewable Energy Technology CC.RNEWNRGYTECH	15.0303			<input checked="" type="checkbox"/> CC1R Related Certificate (45-60 credits)	49

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

LAST AMENDMENT APPROVED ON 01/19/18

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 49-50
<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.]

<i>CURRENT CURRICULUM 21-22</i>				<i>PROPOSED CURRICULUM 22-23</i>			
[List entire curriculum as last approved]				[List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Fall Term							
MFG-109	Computer Literacy for Technicians	33	3	Move to 2 nd Term			
MFG-130	Basic Electricity I	33	3				
MTH-050	Technical Mathematics I	44	4				
RET-200	Renewable Energy Systems	44	4	RET-200	Renewable Energy Systems	22	2
RET-240	Alternative Fuels	88	4	REMOVE			
				EET-139	Principles of Troubleshooting I	33	2
				IMT-104	Reading Schematics and Symbols	22	2
				--	Human Relations requirement (see page 82)		3
Winter Term							
EET-139	Principles of Troubleshooting I	33	2	Move to 1 st Term			
MFG-107	Industrial Safety & First Aid	33	3	Move to 3 rd Term			
MFG-131	Basic Electricity II	33	3				
MTH-080	Technical Mathematics II	33	3				
RET-209	Renewable Energy I: Energy Efficiency	66	3				
				IMT-120	Industrial Machinery I	66	3
				MFG-109	Computer Literacy for Technicians	33	3
				MFG-221	Materials Science	66	3
Spring Term							
MET-170	Introduction to Manufacturing Processes	33	3	REMOVE			
MFG-103	Machining for Fabrication & Maintenance	66	3	REMOVE			
RET-211	Renewable Energy II: System Fundamentals	66	3				
RET-280	Renewable Energy/CWE	72	2	REMOVE			
WR-101	Communication Skills: Occupational Writing	33	3	WR-101 Or WR-121	Communication Skills: Occupational Writing Or English Composition	33-44	3-4
--	Human Relations requirement (see page 82)		3	Move to 1 st Term			
				IMT-220	Industrial Machinery II	66	3

				MFG-107	Industrial Safety & First Aid	33	3
				MFG-132	Basic Electricity III	33	3
TOTAL CURRENT CREDITS:			49	TOTAL PROPOSED CREDITS:			49-50

College Contact	Industrial Technology Department	Telephone No.	3318
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature			Date 5/2/22



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	
-----------------	-----------------------------	-------------	--

CAREER LEARNING AREA

<input type="checkbox"/> Ag, Food & Natural Resource Systems	<input type="checkbox"/> Health Services
<input type="checkbox"/> Arts, Information & Communications	<input type="checkbox"/> Human Resources
<input type="checkbox"/> Business & Management	<input type="checkbox"/> Industrial & Engineering Systems

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Renewable Energy Technology AAS				<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 Energy Systems Maintenance Technician – Career Pathway CC.ENSYSMAINTECH	15.0303	Z	*	<input checked="" type="checkbox"/> Career Pathway (12-44)	25-27

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

LAST AMENDMENT APPROVED ON 04.16.21

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> 22
<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.]

<i>CURRENT CURRICULUM 21-22</i>				<i>PROPOSED CURRICULUM 22-23</i>			
<small>[List entire curriculum as last approved]</small>				<small>[List only course(s) to be amended]</small>			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
EET-139	Principles of Troubleshooting I	33	2				
MFG-104	Print Reading	33	3	REMOVE			
MFG-107	Industrial Safety & First Aid	33	3				
MFG-130	Basic Electricity I	33	3				
MTH-050	Technical Mathematics I	44	4				
RET-200	Renewable Energy Systems	44	4	RET-200	Renewable Energy Systems	22	2
--	Energy Systems Maintenance Technician Program Electives		6-8	--	Energy Systems Maintenance Technician Program Electives		6
				IMT-104	Reading Schematics and Symbols	22	2
Energy Systems Maintenance Technician Program Electives							
MET-170	Introduction to Manufacturing Processes	33	3	REMOVE			
MFG-103	Machining for Fabrication & Maintenance	66	3				
RET-209	Renewable Energy I: Energy Efficiency	66	3				
WLD-150 Or WLD-102	Welding Processes or Introduction to Welding	44-88	2-4	REMOVE			
				IMT-120	Industrial Machinery I	66	3
				MFG-140	Principles of Fluid Power	66	3
TOTAL CURRENT CREDITS:			25-27	TOTAL PROPOSED CREDITS:			22

College Contact	Industrial Technology Department	Telephone No.	3318
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature			Date 5/2/22

Program	Implementation
AS, Renewable Energy Engineering, OIT	2022/SU



COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

College:	Clackamas Community College	Date:	
-----------------	-----------------------------	--------------	--

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

PROGRAM INFORMATION					
<i>APPROVED</i> Program Title	<i>APPROVED</i> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
AS Area of Emphasis Title: Engineering – Renewable Energy AS.OITRNWNRGENGR				Associate of Applied Science Area of Emphasis	99-104
Partnering Institution Name Oregon Institute of Technology (Oregon Tech)					


Last amendment approved on 01.29.21

TYPE OF PROGRAM AMENDMENT <small>(Check ALL That Apply)</small>			
<input type="checkbox"/> New Agreement	<input type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits	
		<i>Proposed Total Credits:</i>	99-103
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>		
Suspension Effective Date:			

CURRICULUM AMENDMENT

[List in a Defined Sequence of Courses Format, e.g., Quarter-to-quarter mapping.
For a New Program, complete the Proposed Curriculum section only.]

CURRENT CURRICULUM 21-22 [List entire curriculum as last approved]				PROPOSED CURRICULUM 22-23 [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Program Requirements – 1st Year							
Fall Term							
CH-221	General Chemistry	77	5				
MTH-251	Calculus I	55	5				
RET-200 Or ENGR-111	Renewable Energy Systems Or Introduction to Engineering		3-4	ENGR-111	Introduction to Engineering		3
WR-121	English Composition	44	4				
Winter Term							
CH-222	General Chemistry	77	5				
COMM-111	Public Speaking	44	4				
MTH-252	Calculus II	55	5				
--	Humanities Elective		3-4				
Spring Term							
EC-201 Or EC-202	Principles of Economics: MICRO or Principles of Economics: MACRO	44	4				
MTH-261	Linear Algebra	44	4				
WR-227	Technical Report Writing	44	4				
--	Humanities Elective		3-4				
Program Requirements – 2nd Year							
Fall Term							
ENGR-211	Statics	44	4				
ENGR-221	Electrical Circuit Analysis I	33	4				
MTH-254	Vector Calculus	55	5				
PH-211	General Physics with Calculus	77	5				
Winter Term							
ENGR-222	Electrical Circuit Analysis II	66	4				
MTH-256	Differential Equations	44	4				
PH-212	General Physics with Calculus	77	5				
WR-122	English Composition	44	4				
Spring Term							
ENGR-223	Electrical Circuit Analysis III	66	4				
PH-213	General Physics with Calculus	77	5				
--	Social Science Elective		3-4				
--	Social Science Elective		3-4				
Social Science Electives							
Choose courses from the following subjects: ANT, EC, GEO, HST, PS, PSY, SOC, SSC, WS							
Humanities Electives							
Choose courses from the following subjects: ART, ASL (200-level), ENG, FR (200-level), GER (200-level), HUM, MUS, PHL, R, SPN (200-level), TA							
Optional: While not required for the AS degree, students may complete additional coursework at CCC that will meet requirements for the Bachelor of Science degree at Institute of Technology and is listed below. COMM-219 Up to 3 additional Social Science Elective credits from the list above Up to 6 additional Humanities Elective credits from the list above							

TOTAL CURRENT CREDITS:		99-104	TOTAL PROPOSED CREDITS:		99-103
College Contact		Telephone No.			
E-Mail Address		Fax No.			
Chief Academic Officer or CTE Dean Signature				Date	5/2/22



New Programs

May 20, 2022

Program	Implementation
Associate of Science Transfer (AST) Business	2022/SU

Associate of Science Transfer Degree (AST) - Business

AS.TBUSINESS

Requirements	Courses
Complete 90 credits from the following:	
Writing <ul style="list-style-type: none"> 2 courses Information literacy will be included in the Writing requirement 	WR-121 and 227
Communications <ul style="list-style-type: none"> 1 course 	COMM- 111
Mathematics <ul style="list-style-type: none"> 1 course 	EOU, PSU, SOU, or OIT: MTH-243 OSU, WOU, or UO: MTH-251
GENERAL EDUCATION DISTRIBUTION AREA Arts & Letters <ul style="list-style-type: none"> 2 Courses Each course must be at least 3 credits 	ART-101, 115, 117, 131, 204*, 205*, 206*, 232, 233, 250, 251, 252, 253, 254, 255, 257, 281, 282, 283, 284, 285, 286, 291, 292, 293 ASL-201*, 202*, 203* BA-130 COMM-112, 126*, 140*, 212, 218*, 219*, 227 ENG-104, 105, 106, 107*, 108*, 109*, 116, 121, 130, 194, 195, 201, 202, 204, 205, 213*, 218, 226, 240*, 241*, 250*, 251*, 252*, 253, 254, 255, 260, 261*, 270, 271*, 272*, 273*, 295*, 296 FR-201*, 202*, 203* HUM-235*, 237*, 240*, 241*, 242* J-211, 216 MUS-105, 111, 112, 113, 205, 206*, 211, 212, 213 PHL-101*, 102*, 103*, 205*, 210*, 213*, 216* R-101*, 102*, 103*, 204*, 210*, 211*, 212* SPN-201*, 202*, 203* SSC-237* TA-101, 102, 103, 111, 122, 123, 141, 142, 143, 153 WR-240, 241*, 242, 243, 244*, 245, 247, 248, 262, 263, 265, 270 WS-101*
GENERAL EDUCATION DISTRIBUTION AREA Social Science <ul style="list-style-type: none"> 2 courses Each course must be at least 3 credits 	EC- 201 and 202
GENERAL EDUCATION DISTRIBUTION AREA Natural Science <ul style="list-style-type: none"> 2 lab science courses Each course must be at least 4 credits 	ASC-175, 176, 177 BI-101, 102, 103, 112, 160L, 165CL, 165D, 175, 176, 177, 204, 211, 212, 213, 231, 232, 233, 234 CH-104, 105, 106, 112, 114, 221, 222, 223 ESR-171, 172, 173 G-101, 102, 103, 148, 201, 202, 203 GS-104, 105, 106, 107 PH-121, 122, 123, 201, 202, 203, 211, 212, 213 Z-201, 202, 203
Cultural Literacy <ul style="list-style-type: none"> 1 course 	Courses meeting the Cultural Literacy requirement are noted with an asterisk.
Business Specific Requirements <ul style="list-style-type: none"> 5 courses 	BA- 101, 131, 211, 213, 226, 230
Electives	<ul style="list-style-type: none"> Any college-level course that would bring total credits to 90 credits Other courses numbered 100 or above may be used in this area, which may include up to 12 credits of career technical courses Please refer to the Elective Course List for courses that may be included Up to 3 credits of PE courses

Notes:

- All courses must be passed with a C or better
- No course may be used to satisfy more than one requirement or distribution area

Clackamas Community College
Online Course/Outline Submission System

Section #1 General Course Information

Department: English

Submitter

First Name: Amanda

Last Name: Coffey

Phone: x3257

Email: amandac

Course Prefix and Number: WRD - 098ES

Credits: 4

Contact hours

Lecture (# of hours): 44

Lec/lab (# of hours):

Lab (# of hours):

Total course hours: 44

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

Course Title: Introducción a la lectura y escritura de nivel universitario 2

Course Description:

El estar preparado para la escritura a nivel de cursos universitarios, incluyendo el curso WR-121 o WR-124ES. El alumnado dialogará sobre una variedad de lecturas, en español, a nivel introductorio o pre-universitario, desarrollarán y perfeccionarán sus ensayos (máximo de tres páginas) por medio del proceso de revisión y múltiples bosquejos. Otros temas incluyen: tener confianza como lector, buscar y encontrar información, y citar las fuentes por medio de citas informales.

Type of Course: Developmental Education

Reason for the new course:

After one year of providing WR124ES, we have learned that some students will benefit from a bridge course to prepare them for college-level reading and writing. This course is the Spanish-language equivalent to WRD98.

** we need some guidance for the course number. Can it be WRD98ES?

Can this course be repeated for credit in a degree?

No

Are there prerequisites to this course?

Yes

Pre-reqs: WRD-090 o ubicación en WRD-098

Have you consulted with the appropriate chair if the pre-req is in another program?

No

Are there corequisites to this course?

No

Are there any requirements or recommendations for students taken this course?

No

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

Yes (A 'Yes' certifies you have talked with the librarian and have received approval.)*

Is there any other potential impact on another department?

Yes

Have you consulted with the Dept Chair(s) of other program(s) regarding potential impact such as overlap, duplication, enrollment, impact, etc.?

Yes (A 'Yes' certifies you have talked with the chair and have received approval.)*

What was the result of the conversation with those department(s)?

Delight!

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F or Pass/No Pass

Audit: Yes

When do you plan to offer this course?

✓ Not every term

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

Yes

Student Learning Outcomes:

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

Al completar de manera exitosa el curso, el alumnado será capaz de:

1. Aplicar estrategias avanzadas de lectura a una variedad de lecturas a nivel introductorio universitario.
2. Dar respuestas de manera independiente a las lecturas: hacer preguntas, crear nuevas ideas, y apoyar sus ideas con evidencia basada en textos de lecturas.
3. Utilizar un proceso que incluya la pre-escritura, bosquejos, retroalimentación, revisión y pulir la escritura para crear dos a tres páginas escritas con claridad, ensayos con enfoque, sin patrones de errores que distraigan de la lectura.
4. Elegir formas de escribir en base a la audiencia, el propósito de la escritura, y comprensión básica de estilos académicos de la escritura y sus géneros.
5. Seguir las expectativas de ser estudiante a nivel universitario: cumplir con las fechas de entrega, pedir ayuda (el Centro de escritura, con el/la instructor/a en horas de oficina), utilizar la tecnología para escribir y hacer investigación, citar fuentes informales, dar y recibir retroalimentación, y reflexionar sobre lo aprendido.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Lectura

- Cómo hacerle frente a las lecturas complejas. Establecer confianza, resistencia y “autoconocerse” como lector/a.
- Expandir el vocabulario académico de sí mismo/a. Reconocer y apreciar el lenguaje figurativo y otros elementos de estilos de escritura.

2. Respuestas y diálogos

- Leer de manera social en clase: generar confianza en sí mismo/a, aprender de las demás personas.
- Dialogar sobre cómo se ha escrito una obra (la forma) VS de lo que trata (el contenido).
- Desarrollar la valentía y la confianza para cuestionar lo que se lee.
- Poner a prueba y apoyar la idea de sí mismo/a por medio del uso de las citas.

3. Escritura

- Desarrollar un proceso de escritura personal que incluya la escritura libre, hacer bosquejos, retroalimentación, pulir el texto, etc.
- Creatividad: apagar a ese crítico interior. Escribir resúmenes detallados con el uso de las citas.
- Redactar y corregir en base a lo que se sabe sobre errores comunes de la escritura.
- Utilizar su experiencia personal y la investigación básica para desarrollar ideas y apoyar su postura/opinión.

4. Enfoque

- Aclarar sus pensamientos sobre algún tema y enfocarlo en una tesis.
- Tomar decisiones sobre su escritura teniendo en cuenta la estructura, tono, etc., basado en quién es su audiencia y el propósito del escrito.

5. Aprendizaje

- Cumplir con las fechas de entregas, comunicarse con el/la instructor/a en persona y/o por correo electrónico.
- Pedir ayuda, utilizando el Centro de escritura, la biblioteca, etc.
- Utilizar la tecnología para escribir y hacer investigaciones.

Does the content of this class relate to job skills in any of the following areas:

- | | |
|--------------------------------------|-----------|
| 1. Increased energy efficiency | No |
| 2. Produce renewable energy | No |
| 3. Prevent environmental degradation | No |
| 4. Clean up natural environment | No |
| 5. Supports green services | No |

Percent of course: 0%

First term to be offered:

Specify term: Fall 2022
