

	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. AST Computer Science Amendment b. WR-101 Credit Change c. WR-101 Amendments (see agenda packet for list) d. Medical Assistant a. New Courses: MA-111, MA-113, MA-114 b. Medical Assistant CC e. Welding a. Welding Technology AAS b. Welding Technology CC f. Early Childhood Education a. ECE-150 Credit Change b. Early Childhood Education & Family Studies AAS c. Early Childhood Education & Family Studies CC	Curriculum Office Amanda Coffey Curriculum Office Sarah Parker John Phelps Dawn Hendricks	Approval/23.SU Approval/23.SU Approval/23.SU Approval/23.SP Approval/23.SU Approval/23.SU Approval/23.SU
5. Old Business a.		
6. New Business a. Accreditation Steering Committee	E. Carney/J. Kovac	Discussion
7. Closing Comments a.		

Present: ASG (Jialing Vongthongthip), Dustin Bare, Nora Brodnicki, Armetta Burney, Rick Carino, Elizabeth Carney, Amanda Coffey, Megan Feagles (Recorder), Bev Forney, Sharron Furno, Sue Goff, Dawn Hendricks, Kerrie Hughes (Chair), Jason Kovac, Eric Lee, Kara Leonard, Laura Lundborg, Mike Mattson, Patricia McFarland, Tracy Nelson, David Plotkin, Lisa Reynolds, Charles Siegfried, Casey Sims, Tara Sprehe, Sarah Steidl, Dru Urbassik, Andrea Vergun, Helen Wand, Jim Wentworth-Plato (Alternate Chair)

Guests: Jen Miller

Absent: Hillary Abbott, George Burgess, Terrie Sanne

1. Welcome & Introductions

2. Approval of Minutes

- a. Approval of the February 3, 2023 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, Instructional Method, Credits Change**

i. HOR-263

1. Jim Wentworth-Plato presented
2. Changing from 66 LAB to 44 LE/LA. Credits remain at 2.
3. HOR-263 is a newer class in the Arboriculture program. We're finding that it is more of a lecture/lab style class. The instructor would like to have a little less time in class and be able to assign homework & reading assignments, so the instructional method change reflects that need. It also gives us a better chance to attract industry members who work full-time, if the time commitment in class is not as long.

Motion to approve, approved

b. **New Program**

i. Computer Science AST

1. Jen Miller presented
2. Program was created as a result of the Computer Science Major Transfer Map (MTM)
3. The ASOT Computer Science will be suspended. Students will be transitioned into this program instead.
4. Jen will get clarification on whether the requirement is 3 credits of PE-185 or 3 credits of any PE course.
5. Why are we keeping the AS Computer Science at PSU?
 - a. There are some courses not included in the AST like Linear Algebra and some electives.

Motion to approve, approved

5. Old Business

6. New Business

7. Closing Comments

- a. Elizabeth Carney is looking for input on a training or refreshing on writing and reviewing Student Learning Outcomes. The purpose would be to orient new members and the refresh existing members. It would get everyone on the same page.
- b. What would be useful? What questions do you have? What would new Committee members benefit from?
- c. Fill out the google form here:

<https://docs.google.com/forms/d/e/1FAIpQLSdlUaDAg9mDXyg0i31Ui382yLJBcpjJYqV-gPQluGWZ20FRg/viewform>

-Meeting Adjourned-

Next Meeting: March 3, 2023 (8-9:30am)

1. Course Title Change

Course	Current Title	Proposed Title
J-226	Introduction to College Newspaper: Design & Production	Introduction to College News: Design & Production
J-227	Intermediate College Newspaper: Design & Production	Intermediate College News: Design & Production
J-228	Advanced College Newspaper: Design & Production	Advanced College News: Design & Production

2. Course Number Change

Course	Title	Proposed Course Number

3. Outlines Reviewed for Approval

Course	Title	Implementation
CDT-108A	Introduction to SolidWorks	2023/SP
CDT-130	Introduction to Fusion	2023/SP
CS-135W	Microsoft Word	2023/SP
EET-225	Mechatronics I	2023/SP
EET-235	Mechatronics II	2023/SP
IMT-110	Preventative Maintenance	2023/SP
J-211	Mass Media & Society	2023/SP
J-226	Introduction to College News: Design & Production	2023/SP
J-227	Intermediate College News: Design & Production	2023/SP
J-228	Advanced College News: Design & Production	2023/SP
MFG-219	Robotics	2023/SP
MFG-264	CMM Set-Up and Operation	2023/SP
MTT-121	CNC I: Set-Up and Operation	2023/SP
MTT-123	CNC III: Applied Programming and Operation	2023/SP
MTT-141	CAD/CAM I	2023/SP
MTT-241	CAD/CAM III	2023/SP
MTT-242	CAD/CAM III	2023/SP
MTT-253	5-Axis Machining	2023/SP
MTT-254	Mill/Turn Machining	2023/SP

Clackamas Community College
Online Course/Outline Submission System

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Section #1 General Course Information

Department: IDTD

Submitter

First Name: Mike
Last Name: Mattson
Phone: 3322
Email: mattsonm

Course Prefix and Number: CDT - 108A

Credits: 3

Contact hours

Lecture (# of hours):
Lec/lab (# of hours): 66
Lab (# of hours):
Total course hours: 66

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: Introduction to SolidWorks

Course Description:

This course is an introduction to the SolidWorks parametric mechanical software. Students will design 3D solid parts, sheet metal parts and assemblies, and develop 2D documentation from them.

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?

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: No

When do you plan to offer this course?

✓ Winter

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. open a sketch on existing plane and create 2D geometry;
2. apply geometric relationships between sketch elements;
3. extrude, cut and sweep 2D geometry to create 3D solid models;
4. loft and revolve 2D geometry to create 3D solids models;
5. add applied features to the 3D solid model;
6. apply mating relationships to 3D elements in an assembly;
7. create 2D documentation of 3D solid models;
8. apply dimensions and annotation to the drawings;
9. document and manage 3D assemblies;
10. create sheet metal layouts.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Introduction to the SolidWorks desktop.
2. Creating fillets and chamfers on parts. Creating revolved solids.
3. Creating hole features, patterns of holes and mirroring features.
4. Creating a part using revolve, loft, extrude and fillet/chamfer.
5. Using the sweep tool, creating helices, and using Shell to create hollow parts.
6. Creating 2D documentation from the 3D parts.
7. Assemblies from existing parts. Creating a part in the context of an assembly.
8. Sheet metal parts that unfold to make the flat pattern.

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:

Next available term after approval

:



Clackamas Community College
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Section #1 General Course Information

Department: IDTD

Submitter

First Name: Mike

Last Name: Mattson

Phone: 3322

Email: mattsonm

Course Prefix and Number: CDT - 130

Credits: 2

Contact hours

Lecture (# of hours):

Lec/lab (# of hours): 44

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: Introduction to Fusion

Course Description:

This course is an introduction to parametric modeling in Autodesk Fusion. Students will design 3-D solid parts and assemblies and then develop 2-D drawing and CNC machining processes from these models.

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): **CAD certificate**

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?

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: No

When do you plan to offer this course?

✓ Winter

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. create sketches on existing planes and create 2-D geometry,
2. extrude, cut and sweep 2-D geometry to create 3-D solid models;
3. apply geometric relationships between sketch elements,
4. loft and revolve 2-D geometry to create 3-D solids models,
5. apply mating relationships to 3-D elements in an assembly,
6. create 2-D documentation of 3-D solid models,
7. model CNC machining processes and generate G&M code.

This course does not include assessable General Education outcomes.

Major Topic Outline:

Opening sketches on existing planes and orientating the screen to that plane.
 Sketching lines and tangent arcs, defining their length and relationship to other sketch entities.
 Creating fillets and chamfers on parts.
 Creating revolved solids.
 Creating hole features, patterns of holes and mirroring features.
 Creating a part using revolve, loft, extrude and fillet/chamfer.
 Using the sweep tool, creating helices, and using Shell to create hollow parts.
 Creating 2-D documentation from the 3-D parts.
 Assemblies from existing parts.
 Generating CNC code from model.

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:

Next available term after approval

:



Clackamas Community College
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Section #1 General Course Information

Department: Business & Computer Science: Computer Science

Submitter

First Name: Debra
Last Name: Carino
Phone: 3170
Email: dcarino

Course Prefix and Number: CS - 135W

Credits: 3

Contact hours

Lecture (# of hours): 33
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 33

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: Microsoft Word

Course Description:

This course focuses on advanced word processing features using the latest version of Microsoft Word. Topics include using tables, merging form letters and data source files, desktop publishing, large document capabilities including master documents and indexes, and linking and embedding objects between Office applications.

Type of Course: Lower Division Collegiate

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)?

Yes

Check which General Education requirement:

✓ Writing

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

Yes

Name of degree(s) and/or certificate(s): Computer Application Support Certificate

Are there prerequisites to this course?

Yes

Pre-reqs: CS-120 or placement into CS-135W

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

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?

✓ **Winter**

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. use advanced character, paragraph and page formatting techniques to create attractive, functional documents;
 2. implement desktop publishing features including the use of sections, columns, tables and lists;
 3. understand and use styles to enhance consistency and functionality of documents;
 4. understand and insert automatic field codes;
 5. understand and use the Mail Merge utility;
 6. exchange information between Word and other applications;
 7. automate processes in Word using recorded macros and the Visual Basic Editor.
-

AAOT/ASOT GENERAL EDUCATION OUTCOMES

COURSE OUTLINE MAPPING CHART

Mark outcomes addressed by the course:

- Mark "C" if this course completely addresses the outcome. Students who successfully complete this course are likely to have attained this learning outcome.
- Mark "S" if this course substantially addresses the outcome. More than one course is required for the outcome to be completely addressed. Students who successfully complete all of the required courses are likely to have attained this learning outcome.
- Mark "P" if this course partially addresses the outcome. Students will have been exposed to the outcome as part of the class, but the class is not a primary means for attaining the outcome and assessment for general education purposes may not be necessary.

As a result of completing the AAOT/ASOT general education requirements, students will be able to:

WR: Writing Outcomes

1. Read actively, think critically, and write purposefully and capably for academic and, in some cases, professional audiences.
- P**
2. Locate, evaluate, and ethically utilize information to communicate effectively.
 3. Demonstrate appropriate reasoning in response to complex issues.

SP: Speech/Oral Communication Outcomes

1. Engage in ethical communication processes that accomplish goals.
2. Respond to the needs of diverse audiences and contexts.
3. Build and manage relationships.

MA: Mathematics Outcomes:

1. Use appropriate mathematics to solve problems.
2. Recognize which mathematical concepts are applicable to a scenario, apply appropriate mathematics and technology in its analysis, and then accurately interpret, validate, and communicate the results.

AL: Arts and Letters Outcomes

1. Interpret and engage in the Arts & Letters, making use of the creative process to enrich the quality of life.
2. Critically analyze values and ethics within range of human experience and expression to engage more fully in local and global issues.

SS: Social Science Outcomes

1. Apply analytical skills to social phenomena in order to understand human behavior.
2. Apply knowledge and experience to foster personal growth and better appreciate the diverse social world in which we live.

SC: Science or Computer Science Outcomes

1. Gather, comprehend, and communicate scientific and technical information in order to explore ideas, models, and solutions and generate further questions.
2. Apply scientific and technical modes of inquiry, individually, and collaboratively, to critically examine the influence of scientific and technical knowledge on human society and the environment.
3. Assess the strengths and weaknesses of scientific studies and critically examine the influence of scientific and technical knowledge on human society and the environment.

Outcomes Assessment Strategies:

:

Major Topic Outline:

1. Creating a document.
2. Editing and formatting a document.
3. Creating a multiple-page report.
4. Desktop publishing a newsletter.
5. Creating styles, outlines, tables, and tables of contents.
6. Creating form letters and mailing labels.
7. Integrating Word with other programs and with the World Wide Web.
8. Customizing Word and automating your work.
9. Creating on-screen forms using advanced table techniques.
10. Managing long documents.

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%

Section #2 Course Transferability

Concern over students taking many courses that do not have a high transfer value has led to increasing attention to the transferability of LDC courses. The state currently requires us to certify that at least one OUS school will accept a new LDC course in transfer. Faculty should communicate with colleagues at one or more OUS schools to ascertain how the course will transfer by answering these questions.

1. Is there an equivalent lower division course at the University?
2. Will a department accept the course for its major or minor requirements?
3. Will the course be accepted as part of the University's distribution requirements?

If a course transfers as an elective only, it may still be accepted or approved as an LDC course, depending on the nature of the course, though it will likely not be eligible for Gen Ed status.

Which OUS schools will the course transfer to? (Check all that apply)

Identify comparable course(s) at OUS school(s)

How does it transfer? (Check all that apply)

:

Provide evidence of transferability: (minimum one, more preferred)

First term to be offered:

Next available term after approval

:

Clackamas Community College
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Section #1 General Course Information

Department: IDTD

Submitter

First Name: Mike
Last Name: Farrell
Phone: 1689
Email: mike.farrell

Course Prefix and Number: EET - 225

Credits: 2

Contact hours

Lecture (# of hours):
Lec/lab (# of hours): 44
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: Mechatronics I

Course Description:

This course explores automation of industrial systems. Students will study the fundamental components of industrial motion control, relay circuits, stepper and servo motors; and power transmission components.

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): Electronics Engineering Technology

Are there prerequisites to this course?

Yes

Pre-reqs: EET-215

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

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

No

Will this class use library resources?

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: No

When do you plan to offer this course?

✓ Winter

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. identify the components of commercial motion control systems;
2. create a schematic in relay ladder logic (RLL) for motor controls;
3. use schematics to correctly wire motor controls;
4. identify the operational differences between servo and stepper motors and select a control system for each type;
5. select and integrate linear motion and power transmission components to create an automated manufacturing system.

This course does not include assessable General Education outcomes.

Major Topic Outline:

Machine construction and power transmission
 Linear guides and bearings
 Lead screws and couplings
 Rolling element bearings
 Timing belts and pulleys
 Relays and ladder logic for motor control
 Servo and stepper motors
 Overview of motion control systems
 Basic relay circuits: Seal-in, H-bridge and E-stop

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:

Next available term after approval

:



Clackamas Community College
Online Course/Outline Submission System

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Section #1 General Course Information

Department: IDTD

Submitter

First Name: Mike
Last Name: Farrell
Phone: 1689
Email: mike.farrell

Course Prefix and Number: EET - 235

Credits: 2

Contact hours

Lecture (# of hours):
Lec/lab (# of hours): 44
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: Mechatronics II

Course Description:

This course expands on advanced electromechanical principles with applications in manufacturing and industrial systems. Students will study the applications of Proportional Integral Differential (PID) controllers for motion and process control and the electromechanical components that are integral to industrial machinery.

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): EET

Are there prerequisites to this course?

Yes

Pre-reqs: EET-225

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

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

No

Will this class use library resources?

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: No

When do you plan to offer this course?

✓ Spring

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. analyze and select a commercial, PID controller for motion and process applications;
2. configure the controller parameters for several common applications;
3. interpret schematics to correctly install the components of motion control;
4. describe the relationship between the feedback loop and the controller;
5. identify the operating principle of absolute and incremental encoders and observe the signal on an oscilloscope;
6. select power transmission and process components to create an automated system.

This course does not include assessable General Education outcomes.

Major Topic Outline:

Commercial motion control system selection
Motors for motion applications
Incremental and absolute encoders
Linear motion dynamics and forces analysis
Elements of PID control
Power transmission components
Thermal system feedback and control

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:

Next available term after approval

:

Clackamas Community College
Online Course/Outline Submission System

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Section #1 General Course Information

Department: IDTD

Submitter

First Name: Mike
Last Name: Mattson
Phone: 3322
Email: mattsonm

Course Prefix and Number: IMT - 110

Credits: 2

Contact hours

Lecture (# of hours):
Lec/lab (# of hours): 44
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: Preventative Maintenance

Course Description:

This course will introduce students to the basics of preventative maintenance programs in an industrial environment. Students will learn about how maintenance departments are organized, how projects and tasks are defined and delegated. Topics will include maintenance organization, work order systems, maintenance planning, scheduling, quality control, controlling parts and materials costs.

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): Industrial Maintenance Technology certificate and A.A.S.

Are there prerequisites to this course?

Yes

Pre-reqs: MTH-050

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

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?

✓ Spring

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. articulate the functions and uses of a work order system in preparing a comprehensive preventative maintenance program;
2. develop work standards and describe how they are used in preventative maintenance;
3. apply scheduling and forecasting systems in a maintenance organization;
4. explain the role of quality control in preventative maintenance;
5. compute workload measurements and apply labor costs controls;
6. implement a parts and materials inventory system;
7. manage and control shop and field maintenance projects.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Functions of industrial maintenance operations.
2. Work order systems.
3. Information creation and use of other information sources.
4. Application of work standards.
5. Maintenance scheduling and forecasting systems.
6. Work activity management.
7. Quality control of work activities.
8. Measuring workloads.
9. Controlling costs.
10. Part and material inventory systems.

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:

Next available term after approval

:

Clackamas Community College
Online Course/Outline Submission System

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Section #1 General Course Information

Department: COTA

Submitter

First Name: Melissa
Last Name: Jones
Phone: 3261
Email: melissaj

Course Prefix and Number: J - 211

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: Mass Media & Society

Course Description:

This course takes students through a critical study of the production and consumption of mass media, including television, radio, books, film, news, advertising and the internet. Students also examine the economic and social organization of mass media, the growth of new media technologies, and the relationship between media and the public.

Type of Course: Lower Division Collegiate

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

No

Is general education certification being sought at this time?

Yes

Check which General Education requirement:

✓ Arts and Letters

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

Yes

Name of degree(s) and/or certificate(s): DMC AAS, Entry Level Journalist

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?

Yes

Recommendations: WRD-098 or placement in WR-121

Requirements:

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?

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

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**
- ✓ **Winter**
- ✓ **Spring**

Is this course equivalent to another?

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

Yes

Course Number: COMM-212 Title: Mass Media & Society

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. define mass media;
 2. evaluate the impact of corporate ownership; (AL2)
 3. examine current events related to the media; (AL1),(AL2),(CL1)
 4. apply media and communication theories to contemporary mass media;
 5. compare and contrast the differences between various types of media;
 6. evaluate the impact of various media in American society and in other countries; (AL2),(CL1)
 7. summarize the impact of advertising and its significance; (IL5)
 8. write about media in culture after viewing film, television and Internet content; (AL1)
 9. evaluate the impact of new media, such as the Internet, on old media, such as books, magazines and newspapers; (AL1)
 10. describe basic media laws, including libel, copyright and fair use. (AL1), (IL5)
-

AAOT/ASOT GENERAL EDUCATION OUTCOMES

COURSE OUTLINE MAPPING CHART

Mark outcomes addressed by the course:

- Mark "C" if this course completely addresses the outcome. Students who successfully complete this course are likely to have attained this learning outcome.
- Mark "S" if this course substantially addresses the outcome. More than one course is required for the outcome to be completely addressed. Students who successfully complete all of the required courses are likely to have attained this learning outcome.
- Mark "P" if this course partially addresses the outcome. Students will have been exposed to the outcome as part of the class, but the class is not a primary means for attaining the outcome and assessment for general education purposes may not be necessary.

As a result of completing the AAOT/ASOT general education requirements, students will be able to:

WR: Writing Outcomes

- P** 1. Read actively, think critically, and write purposefully and capably for academic and, in some cases, professional audiences.
- P** 2. Locate, evaluate, and ethically utilize information to communicate effectively.
- P** 3. Demonstrate appropriate reasoning in response to complex issues.

SP: Speech/Oral Communication Outcomes

1. Engage in ethical communication processes that accomplish goals.
2. Respond to the needs of diverse audiences and contexts.
3. Build and manage relationships.

MA: Mathematics Outcomes:

1. Use appropriate mathematics to solve problems.
2. Recognize which mathematical concepts are applicable to a scenario, apply appropriate mathematics and technology in its analysis, and then accurately interpret, validate, and communicate the results.

AL: Arts and Letters Outcomes

- S** 1. Interpret and engage in the Arts & Letters, making use of the creative process to enrich the quality of life.
- S** 2. Critically analyze values and ethics within range of human experience and expression to engage more fully in local and global issues.

SS: Social Science Outcomes

- S** 1. Apply analytical skills to social phenomena in order to understand human behavior.
2. Apply knowledge and experience to foster personal growth and better appreciate the diverse social world in which we live.

SC: Science or Computer Science Outcomes

1. Gather, comprehend, and communicate scientific and technical information in order to explore ideas, models, and solutions and generate further questions.
2. Apply scientific and technical modes of inquiry, individually, and collaboratively, to critically examine the influence of scientific and technical knowledge on human society and the environment.
3. Assess the strengths and weaknesses of scientific studies and critically examine the influence of scientific and technical knowledge on human society and the environment.

1. Identify and analyze complex practices, values, and beliefs and the culturally and historically defined meanings of difference.

Outcomes Assessment Strategies:

✓ Writing Assignments

- ✓ Presentations
- ✓ Thesis/Research Project

:

Major Topic Outline:

1. Mass media defined
2. Books
3. News
4. Magazines
5. Radio
6. Music
7. Television
8. Advertising
9. Internet
10. Government regulation
11. Media law
12. Global media
13. Media ethics
14. Public relations
15. Media business and ownership

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%

Section #2 Course Transferability

Concern over students taking many courses that do not have a high transfer value has led to increasing attention to the transferability of LDC courses. The state currently requires us to certify that at least one OUS school will accept a new LDC course in transfer. Faculty should communicate with colleagues at one or more OUS schools to ascertain how the course will transfer by answering these questions.

1. Is there an equivalent lower division course at the University?
2. Will a department accept the course for its major or minor requirements?
3. Will the course be accepted as part of the University's distribution requirements?

If a course transfers as an elective only, it may still be accepted or approved as an LDC course, depending on the nature of the course, though it will likely not be eligible for Gen Ed status.

Which OUS schools will the course transfer to? (Check all that apply)

- EOU (Eastern Oregon University)**
- PSU (Portland State University)**
- OSU (Oregon State University)**
- SOU (Southern Oregon University)**
- OSU-Cascade**
- UO (University of Oregon)**

Identify comparable course(s) at OUS school(s)

Transfers as Humanities or Social Science lower division credit. OSU=COMM-280

How does it transfer? (Check all that apply)

- required or support for major**
- general education or distribution requirement**
- general elective**
- :

Provide evidence of transferability: (minimum one, more preferred)

- Correspondence with receiving institution (mail, fax, email, etc.)**

First term to be offered:

Next available term after approval

:

Clackamas Community College
Online Course/Outline Submission System

Show changes since last approval in red

Section #1 General Course Information

Department: COTA

Submitter

First Name: Melissa
Last Name: Jones
Phone: 3261
Email: melissaj

Course Prefix and Number: J - 226

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: Introduction to College News: Design & Production

Course Description:

Students work as designers and media creators for The Clackamas Print, the college's award-winning student newspaper, website and social media sites. Students design the student newspaper, create social media posts and produce related multimedia content using Adobe software and other products. May be repeated for up to 8 credits.

Type of Course: Lower Division Collegiate

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

Yes

Up to how many credits can this course be repeated to satisfy a degree requirement? 8

Is general education certification being sought at this time?

No

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

Yes

Check which General Education requirement:

✓ Arts and Letters

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

Yes

Name of degree(s) and/or certificate(s): Digital Media Communications; Entry Level Journalist career pathway certificate

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?

Yes

Recommendations: Placement in WR-121

Requirements:

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

No

Will this class use library resources?

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**
- ✓ **Winter**
- ✓ **Spring**

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. work as a page designer and headline writer, contributing to the production of the print newspaper;
 2. use software to compose pages and social media posts using images and text, incorporating elements of graphic design; (AL1)
 3. craft accurate headlines and photo captions using Associated Press style;
 4. distribute photo, audio and video news content for social media and The Clackamas Print website;
 5. critically analyze news design in local, national and international media, both online and in print; (AL1)
 6. correlate the laws of libel and copyright to student-produced content.
-

AAOT/ASOT GENERAL EDUCATION OUTCOMES

COURSE OUTLINE MAPPING CHART

Mark outcomes addressed by the course:

- Mark "C" if this course completely addresses the outcome. Students who successfully complete this course are likely to have attained this learning outcome.
- Mark "S" if this course substantially addresses the outcome. More than one course is required for the outcome to be completely addressed. Students who successfully complete all of the required courses are likely to have attained this learning outcome.
- Mark "P" if this course partially addresses the outcome. Students will have been exposed to the outcome as part of the class, but the class is not a primary means for attaining the outcome and assessment for general education purposes may not be necessary.

As a result of completing the AAOT/ASOT general education requirements, students will be able to:

WR: Writing Outcomes

- P** 1. Read actively, think critically, and write purposefully and capably for academic and, in some cases, professional audiences.
- P** 2. Locate, evaluate, and ethically utilize information to communicate effectively.
3. Demonstrate appropriate reasoning in response to complex issues.

SP: Speech/Oral Communication Outcomes

1. Engage in ethical communication processes that accomplish goals.
2. Respond to the needs of diverse audiences and contexts.
3. Build and manage relationships.

MA: Mathematics Outcomes:

1. Use appropriate mathematics to solve problems.
2. Recognize which mathematical concepts are applicable to a scenario, apply appropriate mathematics and technology in its analysis, and then accurately interpret, validate, and communicate the results.

AL: Arts and Letters Outcomes

- S** 1. Interpret and engage in the Arts & Letters, making use of the creative process to enrich the quality of life.
- S** 2. Critically analyze values and ethics within range of human experience and expression to engage more fully in local and global issues.

SS: Social Science Outcomes

1. Apply analytical skills to social phenomena in order to understand human behavior.
2. Apply knowledge and experience to foster personal growth and better appreciate the diverse social world in which we live.

SC: Science or Computer Science Outcomes

1. Gather, comprehend, and communicate scientific and technical information in order to explore ideas, models, and solutions and generate further questions.
2. Apply scientific and technical modes of inquiry, individually, and collaboratively, to critically examine the influence of scientific and technical knowledge on human society and the environment.
3. Assess the strengths and weaknesses of scientific studies and critically examine the influence of scientific and technical knowledge on human society and the environment.

CL: Cultural Literacy Outcome

1. Identify and analyze complex practices, values, and beliefs and the culturally and historically defined meanings of difference.

Outcomes Assessment Strategies:

- ✓ General Examination
- ✓ Presentations
- ✓ Projects
- ✓ Writing Assignments
- ✓ Portfolios

:

Major Topic Outline:

1. Newspaper layout and design.
2. Headline writing.
3. Social media for news.
4. Adobe software.
5. Graphic design.
6. Photography, audio and video news distribution.
6. Media law.

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%

Section #2 Course Transferability

Concern over students taking many courses that do not have a high transfer value has led to increasing attention to the transferability of LDC courses. The state currently requires us to certify that at least one OUS school will accept a new LDC course in transfer. Faculty should communicate with colleagues at one or more OUS schools to ascertain how the course will transfer by answering these questions.

1. Is there an equivalent lower division course at the University?
2. Will a department accept the course for its major or minor requirements?
3. Will the course be accepted as part of the University's distribution requirements?

If a course transfers as an elective only, it may still be accepted or approved as an LDC course, depending on the nature of the course, though it will likely not be eligible for Gen Ed status.

Which OUS schools will the course transfer to? (Check all that apply)

- ✓ EOU (Eastern Oregon University) ✓ PSU (Portland State University)
- ✓ OSU (Oregon State University) ✓ UO (University of Oregon)

Identify comparable course(s) at OUS school(s)

PSU, WR 330 Desktop Publishing;
UO, J464 Newspaper Design

How does it transfer? (Check all that apply)

required or support for major

general elective

:

Provide evidence of transferability: (minimum one, more preferred)

Other. Please explain.

course catalogs

First term to be offered:

Next available term after approval

:

Clackamas Community College
Online Course/Outline Submission System

Show changes since last approval in red

Section #1 General Course Information

Department: COTA

Submitter

First Name: Melissa
Last Name: Jones
Phone: 3261
Email: melissaj

Course Prefix and Number: J - 227

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: Intermediate College News: Design & Production

Course Description:

Offers students intermediate work as designers and media creators for The Clackamas Print, the college's award-winning student newspaper, website and social media sites. Students design the student newspaper, create social media posts and produce related multimedia journalism content using Adobe software and other products. May be repeated for up to 8 credits.

Type of Course: Lower Division Collegiate

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

Yes

Up to how many credits can this course be repeated to satisfy a degree requirement? 8

Is general education certification being sought at this time?

No

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

Yes

Check which General Education requirement:

✓ Arts and Letters

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

Yes

Name of degree(s) and/or certificate(s): Digital Media Communications, Entry Level Journalist Career Pathway Certificate

Are there prerequisites to this course?

Yes

Pre-reqs: J-226

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

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

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?

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**
- ✓ **Winter**
- ✓ **Spring**

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. create and compose original page designs with computer software, including boxes, graphics and other alternative story forms; (AL1)
 2. contribute to a team that creates a quality newspaper that helps writers and readers engage more fully in local and global issues; (AL2)
 3. fact check and copy edit to prepare news for print, social media and the web using Associated Press style;
 4. choose and edit photos, audio and video using appropriate software;
 5. apply journalism values and ethics to local, national and international media, both online and in print; (AL1)
 6. apply media law such as libel and copyright to journalism stories to be published.
-

AAOT/ASOT GENERAL EDUCATION OUTCOMES

COURSE OUTLINE MAPPING CHART

Mark outcomes addressed by the course:

- Mark "C" if this course completely addresses the outcome. Students who successfully complete this course are likely to have attained this learning outcome.
- Mark "S" if this course substantially addresses the outcome. More than one course is required for the outcome to be completely addressed. Students who successfully complete all of the required courses are likely to have attained this learning outcome.
- Mark "P" if this course partially addresses the outcome. Students will have been exposed to the outcome as part of the class, but the class is not a primary means for attaining the outcome and assessment for general education purposes may not be necessary.

As a result of completing the AAOT/ASOT general education requirements, students will be able to:

WR: Writing Outcomes

1. Read actively, think critically, and write purposefully and capably for academic and, in some cases, professional audiences.
2. Locate, evaluate, and ethically utilize information to communicate effectively.
3. Demonstrate appropriate reasoning in response to complex issues.

SP: Speech/Oral Communication Outcomes

1. Engage in ethical communication processes that accomplish goals.
2. Respond to the needs of diverse audiences and contexts.
3. Build and manage relationships.

MA: Mathematics Outcomes:

1. Use appropriate mathematics to solve problems.
2. Recognize which mathematical concepts are applicable to a scenario, apply appropriate mathematics and technology in its analysis, and then accurately interpret, validate, and communicate the results.

AL: Arts and Letters Outcomes

- P** 1. Interpret and engage in the Arts & Letters, making use of the creative process to enrich the quality of life.
- P** 2. Critically analyze values and ethics within range of human experience and expression to engage more fully in local and global issues.

SS: Social Science Outcomes

1. Apply analytical skills to social phenomena in order to understand human behavior.
2. Apply knowledge and experience to foster personal growth and better appreciate the diverse social world in which we live.

SC: Science or Computer Science Outcomes

1. Gather, comprehend, and communicate scientific and technical information in order to explore ideas, models, and solutions and generate further questions.
2. Apply scientific and technical modes of inquiry, individually, and collaboratively, to critically examine the influence of scientific and technical knowledge on human society and the environment.
3. Assess the strengths and weaknesses of scientific studies and critically examine the influence of scientific and technical knowledge on human society and the environment.

Outcomes Assessment Strategies:

- ✓ Presentations
- ✓ Projects
- ✓ Writing Assignments
- ✓ Portfolios

:

Major Topic Outline:

1. Intermediate copy editing.
2. Intermediate headline writing.
3. Intermediate page design.
4. Intermediate Adobe software
5. Intermediate social media for news.
6. Libel.
7. Ethics.
8. Intermediate photography, audio and video news distribution.
9. Associated Press style.
10. Journalism industry trends.

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%

Section #2 Course Transferability

Concern over students taking many courses that do not have a high transfer value has led to increasing attention to the transferability of LDC courses. The state currently requires us to certify that at least one OUS school will accept a new LDC course in transfer. Faculty should communicate with colleagues at one or more OUS schools to ascertain how the course will transfer by answering these questions.

1. Is there an equivalent lower division course at the University?
2. Will a department accept the course for its major or minor requirements?
3. Will the course be accepted as part of the University's distribution requirements?

If a course transfers as an elective only, it may still be accepted or approved as an LDC course, depending on the nature of the course, though it will likely not be eligible for Gen Ed status.

Which OUS schools will the course transfer to? (Check all that apply)

- ✓ EOU (Eastern Oregon University) ✓ PSU (Portland State University)
- ✓ OSU (Oregon State University) ✓ UO (University of Oregon)

Identify comparable course(s) at OUS school(s)

PSU, WR 330 Desktop Publishing;
UO, J464 Newspaper Design

How does it transfer? (Check all that apply)

required or support for major

general elective

:

Provide evidence of transferability: (minimum one, more preferred)

Other. Please explain.

course catalogs

First term to be offered:

Next available term after approval

:

Clackamas Community College
Online Course/Outline Submission System

Show changes since last approval in red

Section #1 General Course Information

Department: COTA

Submitter

First Name: Melissa
Last Name: Jones
Phone: 3261
Email: melissaj

Course Prefix and Number: J - 228

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: **Advanced College News: Design & Production**

Course Description:

Offers students advanced work as designers and media creators for The Clackamas Print, the college's award-winning student newspaper, website and social media sites. Students design the student newspaper, create social media posts and produce related multimedia journalism content using Adobe software and other products. May be repeated for up to 8 credits.

Type of Course: Lower Division Collegiate

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

Yes

Up to how many credits can this course be repeated to satisfy a degree requirement? 8

Is general education certification being sought at this time?

No

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

Yes

Check which General Education requirement:

✓ Arts and Letters

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

Yes

Name of degree(s) and/or certificate(s): Digital Media Communications, Entry Level Journalist Career Pathway Certificate

Are there prerequisites to this course?

Yes

Pre-reqs: J-227

**Have you consulted with the appropriate chair if the pre-req is in another program?
Yes (A 'Yes' certifies you have talked with the chair and have received approval.)***

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?

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**
- ✓ **Winter**
- ✓ **Spring**

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. design advanced content for multiple pages and posts, including stories, graphics and art elements; (AL1)
 2. obtain photos for inclusion in the newspaper and website, including securing copyright permissions;
 3. create, coordinate and manage content across multiple platforms including web, social media and print;
 4. integrate text, images, audio and video elements in news packages;
 5. work with a team of students through ethical and legal decisions regarding content. (AL1)
-

AAOT/ASOT GENERAL EDUCATION OUTCOMES

COURSE OUTLINE MAPPING CHART

Mark outcomes addressed by the course:

- Mark "C" if this course completely addresses the outcome. Students who successfully complete this course are likely to have attained this learning outcome.
- Mark "S" if this course substantially addresses the outcome. More than one course is required for the outcome to be completely addressed. Students who successfully complete all of the required courses are likely to have attained this learning outcome.
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As a result of completing the AAOT/ASOT general education requirements, students will be able to:

WR: Writing Outcomes

1. Read actively, think critically, and write purposefully and capably for academic and, in some cases, professional audiences.
2. Locate, evaluate, and ethically utilize information to communicate effectively.
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SP: Speech/Oral Communication Outcomes

1. Engage in ethical communication processes that accomplish goals.
2. Respond to the needs of diverse audiences and contexts.
3. Build and manage relationships.

MA: Mathematics Outcomes:

1. Use appropriate mathematics to solve problems.
2. Recognize which mathematical concepts are applicable to a scenario, apply appropriate mathematics and technology in its analysis, and then accurately interpret, validate, and communicate the results.

AL: Arts and Letters Outcomes

- S** 1. Interpret and engage in the Arts & Letters, making use of the creative process to enrich the quality of life.
- S** 2. Critically analyze values and ethics within range of human experience and expression to engage more fully in local and global issues.

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1. Apply analytical skills to social phenomena in order to understand human behavior.
2. Apply knowledge and experience to foster personal growth and better appreciate the diverse social world in which we live.

SC: Science or Computer Science Outcomes

1. Gather, comprehend, and communicate scientific and technical information in order to explore ideas, models, and solutions and generate further questions.
2. Apply scientific and technical modes of inquiry, individually, and collaboratively, to critically examine the influence of scientific and technical knowledge on human society and the environment.
3. Assess the strengths and weaknesses of scientific studies and critically examine the influence of scientific and technical knowledge on human society and the environment.

1. Identify and analyze complex practices, values, and beliefs and the culturally and historically defined meanings of difference.

Outcomes Assessment Strategies:

✓ **General Examination**

✓ **Presentations**

✓ **Industry Standards**

✓ **Portfolios**

:

Major Topic Outline:

1. Advanced copy editing.
2. Advanced headline writing.
3. Advanced page design.
4. Media law.
5. Advanced photography, audio and video news distribution.
6. Managing content flow, timing and distribution.
7. Web and social media design.
8. Newsroom management.

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%

Section #2 Course Transferability

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2. Will a department accept the course for its major or minor requirements?
3. Will the course be accepted as part of the University's distribution requirements?

If a course transfers as an elective only, it may still be accepted or approved as an LDC course, depending on the nature of the course, though it will likely not be eligible for Gen Ed status.

Which OUS schools will the course transfer to? (Check all that apply)

- ✓ **EOU (Eastern Oregon University)** ✓ **PSU (Portland State University)**
✓ **SOU (Southern Oregon University)**

✓ UO (University of Oregon)

Identify comparable course(s) at OUS school(s)

PSU, WR 330 Desktop Publishing;
UO, J464 Newspaper Design

How does it transfer? (Check all that apply)

✓ required or support for major

✓ general elective

:

Provide evidence of transferability: (minimum one, more preferred)

✓ Other. Please explain.

College catalogs

First term to be offered:

Next available term after approval

:

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: Mike
Last Name: Mattson
Phone: 3322
Email: mattsonm

Course Prefix and Number: MFG - 219

Credits: 3

Contact hours

Lecture (# of hours):
Lec/lab (# of hours): 66
Lab (# of hours):
Total course hours: 66

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: Robotics

Course Description:

An introduction to robotics and industrial motion control. Students will be exposed to the operation, programming and applications of a typical FANUC, six-axis industrial robot. Hands-on activities will include manual tech programming, testing with simulation software and programming of advanced movements.

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): Elective to Manufacturing Technology AAS degree

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?

Yes

Recommendations: MFG-209 and MTH-050

Requirements:

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?

✓ Spring

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. demonstrate the safe, manual operation of a FANUC industrial robot;
2. manipulate the robot with the teach pendant and record simple motions such as machine loading and stacking;
3. write intermediate motion programs;
4. perform software simulations to verify correct motion and timing of programs;
5. interface robotics hardware with a CNC machine tool to facilitate automated machining;
6. access the machine vision capabilities of the robot to select object based upon shape, orientation and color.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Introduction to robotics.
2. Manual operation and safety.
3. Robot programming.
4. Industrial applications.
5. Electromechanical systems.
6. Fluid power systems.
7. End-of-arm tooling and sensors.
8. Interfacing robots with other industrial systems.
9. Machine vision.
10. Preventative maintenance of robotic systems.

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: next

Clackamas Community College
Online Course/Outline Submission System

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Section #1 General Course Information

Department: IDTD

Submitter

First Name: **Mike**
Last Name: **Mattson**
Phone: **3322**
Email: **mattsonm**

Course Prefix and Number: MFG - 264

Credits: 2

Contact hours

Lecture (# of hours):
Lec/lab (# of hours): 44
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: CMM Set-Up and Operation

Course Description:

In this last course of the precision measurement sequence, students will learn to properly set-up and operate a Coordinate Measuring Machine (CMM) and design measurement plans for optimal metrology output.

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): Machine Tool Technology

Are there prerequisites to this course?

Yes

Pre-reqs: MFG-104

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

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

No

Will this class use library resources?

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?

✓ Winter

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. define the role of Coordinate Measurement Machines and the systems that control CMM machines;
2. utilize GD&T guidelines to produce measurement plan;
3. formulate a measurement plan to meet inspection criteria;
4. features & datum control on CMM machines;
5. create characteristics to evaluate using GD&T principles;
6. perform 1st runs on CMM programs for the purpose of proving them out;
7. transfer measurement programs to and from CMM machines;
8. install and use basic work-holding hardware;
9. assemble and qualify inspection probes using CMM machines;
10. work safely around automated measurement equipment.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Coordinate Measurement Machine (CMM) systems and nomenclature.
2. Cartesian coordinate system.
3. Machine start-up and shut-down procedures.
4. Assemble and qualify inspection probes.
5. Set-up CMM machine work datums.
6. CMM machine tooling and work holding basics.
7. CMM inspection terms and measurement plans.
8. GD&T terminology and utilization.
9. Advanced positional controls.
10. Composite positional controls.
11. Multiple segment positional controls.
12. Composite profile controls.
13. Multiple segment profile controls.

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:

Next available term after approval

:

Clackamas Community College
Online Course/Outline Submission System

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Section #1 General Course Information

Department: IDTD

Submitter

First Name: Mike
Last Name: Mattson
Phone: 3322
Email: mattsonm

Course Prefix and Number: MTT - 121

Credits: 4

Contact hours

Lecture (# of hours):
Lec/lab (# of hours): 88
Lab (# of hours):
Total course hours: 88

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: CNC I: Set-Up and Operation

Course Description:

This is the first course in the CNC sequence. Students will learn basic skills including how to properly set-up and operate both CNC milling and turning centers. Students will also learn G & M codes related to basic machine set-up and operation. Designed for persons with little or no previous CNC experience.

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): Machine Tool Technology Certificate, CNC Operator Certificate, Machine Tool Technology AAS, Computer-Aided Manufacturing AAS

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?

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**

✓ **Winter**

Is this course equivalent to another?

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

Yes

Course Number: APR-201MA Title: CNC I: Set-Up and Operation

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 various systems that control both CNC milling and turning centers;
2. establish work offsets on CNC machines;
3. establish both initial tool offsets as well as make adjustments for tool wear and deflection;
4. perform 1st runs on CNC programs for the purpose of proving them out;
5. interpret and apply G & M codes that relate to basic machine set-up and operation;
6. transfer programs to and from CNC machine tools;
7. install and use basic work-holding hardware;
8. assemble and install tooling into CNC machines;
9. work safely around automated manufacturing equipment.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Computer Numerical Control (CNC) systems and nomenclature.
2. Cartesian coordinate system.
3. Machine start-up and shut-down procedures.
4. Set-up CNC vertical milling machine work and tool offsets.
5. Set-up CNC horizontal turning machine zero and tool offsets.
6. Work and tool offset adjustments.
7. CNC machine tooling and work holding basics.
8. G & M code basics.
9. Milling and turning projects.

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:

Next available term after approval

:

Clackamas Community College
Online Course/Outline Submission System

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Section #1 General Course Information

Department: IDTD

Submitter

First Name: **Mike**
Last Name: **Mattson**
Phone: **3322**
Email: **mattsonm**

Course Prefix and Number: MTT - 123

Credits: 4

Contact hours

Lecture (# of hours):
Lec/lab (# of hours): 88
Lab (# of hours):
Total course hours: 88

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: CNC III: Applied Programming and Operation

Course Description:

This is the third course in the CNC sequence. Students will build their CNC programming, set-up, and operation skills. They will work individually or in small groups to design, program, manufacture, and test advanced projects using CNC mills, CNC lathes, multi-axis/process machine tools, and various software applications.

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): Machine Tool Technology

Are there prerequisites to this course?

Yes

Pre-reqs: MTT-122 and MTH-080

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

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

No

Will this class use library resources?

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?

✓ **Spring**

Is this course equivalent to another?

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

Yes

Course Number: APR-203MA Title: CNC III: Applied Programming and Operations

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. calculate tool points and use trigonometry to solve advanced programming problems;
2. create and update operation plans, set-up sheet, and shop drawings to be used while processing parts;
3. write advanced G & M code programs from scratch for both CNC milling and turning centers;
4. install and use work-holding hardware on multi-axis CNC machines to set-up machines;
5. properly apply advancements in cutting tool technology on both CNC milling and turning machines;
6. use both spindle and tool probes to perform set-ups on CNC machines;
7. perform 1st runs on advanced CNC programs for the purpose of proving them out.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Advanced CNC milling programming, set-up, and operation
2. Advanced CNC lathe programming, set-up, and operation
3. CNC part processing documentation for multi-axis and multi-process.
4. Advanced G & M code programming.
5. Milling, turning, multi-axis, and multi-process projects.

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:

Next available term after approval

:

Clackamas Community College
Online Course/Outline Submission System

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Section #1 General Course Information

Department: IDTD

Submitter

First Name: **Mike**
Last Name: **Mattson**
Phone: **3322**
Email: **mattsonm**

Course Prefix and Number: MTT - 141

Credits: 4

Contact hours

Lecture (# of hours):
Lec/lab (# of hours): 88
Lab (# of hours):
Total course hours: 88

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: CAD/CAM I

Course Description:

This course is the first in the CAM series and will introduce students to computer-aided part creation and programming. Students will use CAD/CAM software to generate Numerical Control (NC) code to produce machined products. Model creation, process verification, code generation, and CAD/CAM integration will be covered.

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): Machine Tool Technology

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?

Yes

Recommendations: MTT-121

Requirements:

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

No

Will this class use library resources?

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?

✓ **Spring**

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. demonstrate an understanding of basic CAD practices;
2. create wire frame and 3D solid geometry;
3. import geometry into the CAM system;
4. identify toolpath operation types;
5. create CAM generated tool paths;
6. utilize the 'Verify' and 'Backplot' utility to troubleshoot toolpaths, within the CAM program;
7. post process the toolpath to NC code;
8. apply this to previously acquired CNC skills to produce a machined part.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Basic CAD drawing.
2. Geometry modifications and transformations.
3. Basic Toolpath creation.
4. Cutter Compensation through CAM.
5. Data entry shortcuts.
6. Toolpath Verification.
7. Toolpath Backplot.
8. Importing CAD files.
9. Use of the Operations Manager.
10. Utilizing Job Set-up.
11. Post processing.
12. File transmission.

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:

Next available term after approval

:



Clackamas Community College
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Section #1 General Course Information

Department: IDTD

Submitter

First Name: **Mike**
Last Name: **Mattson**
Phone: **3322**
Email: **mattsonm**

Course Prefix and Number: MTT - 241

Credits: 4

Contact hours

Lecture (# of hours):
Lec/lab (# of hours): 88
Lab (# of hours):
Total course hours: 88

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: CAD/CAM II

Course Description:

This course is the second in the Computer-Aided Machining (CAM) series and will greatly expand the student's existing CAD/CAM skills by exploring more advanced software features and programming techniques. There will be a strong emphasis placed on the entire CAD/CAM/CNC part machining process. An introduction to 4-axis mill programming will be included.

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): Machine Tool Technology

Are there prerequisites to this course?

Yes

Pre-reqs: MTT-122 and MTT-141

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

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

No

Will this class use library resources?

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. create and modify solid models using CAD/CAM software;
2. create 3-axis milling programs using CAD/CAM software;
3. create 2-axis turning programs using CAD/CAM software;
4. refine and optimize NC programs using the CAD/CAM/CNC process cycle;
5. demonstrate the 4-axis mill programming and machining process.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. CAD Solid model creation.
2. CAD Solid model manipulation.
3. Programming 3-axis milling machines.
4. Programming 2-axis turning machines.
5. Introduction to four-axis milling.
6. Work zeros, offsets, and axis combinations.
7. Programming techniques and processes.
8. CAD/CAM/CNC optimization.
9. Machining projects.

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:

Next available term after approval

:

Clackamas Community College
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Section #1 General Course Information

Department: IDTD

Submitter

First Name: **Mike**
Last Name: **Mattson**
Phone: **3322**
Email: **mattsonm**

Course Prefix and Number: MTT - 242

Credits: 4

Contact hours

Lecture (# of hours):
Lec/lab (# of hours): 88
Lab (# of hours):
Total course hours: 88

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: CAD/CAM III

Course Description:

This course is the third in the Computer-Aided Machining (CAM) series and will build on the previous course. Students will use CAD/CAM software to produce CNC parts. There will be an emphasis on multiple operations on both CNC milling and turning machines. An introduction to five-axis and mill/turn machining will be included.

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): Machine Tool Technology

Are there prerequisites to this course?

Yes

Pre-reqs: MTT-241

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

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

No

Will this class use library resources?

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?

✓ **Winter**

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. design, develop and manufacture a complex machined project;
2. create and modify CAD models from engineering drawings using CAD/CAM software;
3. create and modify process models based on the CAD geometry;
4. create and refine toolpaths for 3 & 4-axis milling and 2-axis turning machines;
5. describe processes and techniques used on both 5-axis and mill/turn machining centers.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Types of multi-axis machines.
2. Introduction to five-axis.
3. Work zeros, offsets, and axis combinations.
4. Programming techniques and processes.
5. Types of mill/turning machines.
6. Introduction to mill/turn.
7. Projects.

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:

Next available term after approval

:

Clackamas Community College
Online Course/Outline Submission System

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Section #1 General Course Information

Department: IDTD

Submitter

First Name: **Mike**
Last Name: **Mattson**
Phone: **3322**
Email: **mattsonm**

Course Prefix and Number: MTT - 253

Credits: 3

Contact hours

Lecture (# of hours):
Lec/lab (# of hours): 66
Lab (# of hours):
Total course hours: 66

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: 5-Axis Machining

Course Description:

This class will introduce students to 5-axis CNC milling machines, their programming, and setup procedures. The course will explore limitations, advantages, and configurations of typical 5-axis machines including rotation style and set-up orientation. Post processing and virtual machine simulation will also be discussed.

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): Machine Tool Technology

Are there prerequisites to this course?

Yes

Pre-reqs: MTT-123

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

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

No

Will this class use library resources?

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?

✓ **Winter**

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. identify the advantages of 5-axis machine tools;
2. identify different machine and workholding configurations;
3. understand basic terminology used in the industry regarding 5-axis machines;
4. determine proper cutting strategies using 3+2 and synchronous movement;
5. describe the difference between feed rate and inverse time feed;
6. identify specific safety issues with rotating axes;
7. use CAM Simulation and virtual machines for simulation.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Identification and orientation of machining axes
2. Machine start-up and shut-down procedures
3. Machine setup and verification procedures
4. Workholding techniques unique to Multi-Axis machining
5. Maximizing the usable work area
6. Reduced part handling and increased three-dimensional part feature acceptance
7. Increased productivity of complex parts while increasing tool life and surface finish
8. Toolpath verification using dedicated simulation and machine environments

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:

Next available term after approval

:



Clackamas Community College
Online Course/Outline Submission System

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Section #1 General Course Information

Department: IDTD

Submitter

First Name: **Mike**
Last Name: **Mattson**
Phone: **3322**
Email: **mattsonm**

Course Prefix and Number: MTT - 254

Credits: 3

Contact hours

Lecture (# of hours):
Lec/lab (# of hours): 66
Lab (# of hours):
Total course hours: 66

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: Mill/Turn Machining

Course Description:

This class will introduce students to CNC mill-turn machines, their programming, and setup procedures. The course will explore limitations, advantages, and configurations of typical mill/turn machines including rotation style and set-up orientation. Post processing and virtual machine simulation will also be discussed.

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): Machine Tool Technology

Are there prerequisites to this course?

Yes

Pre-reqs: MTT-123

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

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

No

Will this class use library resources?

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?

✓ **Spring**

Is this course equivalent to another?

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

Yes

Course Number: APR-254MA Title: Mill/Turn Machining

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. identify the advantages of mill-turn machines;
2. identify different machine and workholding configurations;
3. understand basic terminology used in the industry regarding Mill-turn machines;
4. determine proper cutting strategies using dual-spindle machine;
5. identify the limitations of the Main and sub-spindle workholding and fixturing;
6. identify specific issues with live tooling and part hand-off;
7. describe the advantages and disadvantages of C and Y-axis machining;
8. use CAM simulation and virtual machines for simulation.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Identification and orientation of machining axes
2. Machine start-up and shut-down procedures
3. Machine setup and verification procedures
4. Workholding techniques unique to Mill-turn machining
5. Maximizing the usable work area
6. Reduced part handling and increased three-dimensional part feature acceptance
7. Increased productivity of complex parts while increasing tool life and surface finish
8. Toolpath verification using dedicated simulation and machine environments

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:

Next available term after approval

:

Associate of Science Transfer Degree (AST) - Computer Science

AS.TCOMPSCI???

New program approved on 02.17.23

Requirements	Courses
<p>Writing 2 courses Information literacy will be included in the Writing requirement.</p>	<p>EOU, SOU, or WOU WR-121Z and WR-122Z</p> <p>OSU, PSU, or UO WR-121Z and WR-227Z</p>
<p>Communications 1 course</p>	<p>COMM- 111</p>
<p>Mathematics 4 to 6 courses</p>	<p>EOU, SOU, or WOU MTH- 111Z, MTH-112Z, MTH-251, and MTH-252</p> <p>OSU, PSU, or UO MTH-111Z, MTH-112Z, MTH-251, MTH-252, CS-250, CS-251</p>
<p>GENERAL EDUCATION DISTRIBUTION AREA</p> <p>Arts & Letters</p> <ul style="list-style-type: none"> • 2 courses • Each course must be at least 3 credits. 	<p>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</p> <p>ASL-201*, 202*, 203*</p> <p>COMM-112, 126*, 140*, 212, 218Z*, 219*, 227</p> <p>ENG-104, 105, 106, 107*, 108*, 109*, 116, 121, 130, 194, 195, 201, 202, 204, 205, 213*, 218, 226, 240*, 241*, 243*, 250*, 251*, 252*, 253, 254, 255, 260, 261*, 270, 271*, 272*, 273*, 295*, 296</p> <p>FR-201*, 202*, 203*</p> <p>HUM-235*, 237*, 240*, 241*, 242*</p> <p>J-211, 216</p> <p>MUS-105, 111, 112, 113, 205, 206*, 211, 212, 213</p> <p>PHL-101*, 102*, 103*, 205*, 210*, 213*, 216*</p> <p>R-101*, 102*, 103*, 204*, 210*, 211*, 212*</p> <p>SPN-201*, 202*, 203*</p> <p>SSC-237*</p> <p>TA-101, 102, 103, 111, 122, 123, 141, 142, 143, 153</p> <p>WR-240, 241*, 242, 243, 244*, 245, 247, 248, 262, 263, 265, 270</p> <p>WS-101*</p>
<p>GENERAL EDUCATION DISTRIBUTION AREA</p> <p>Social Science</p> <ul style="list-style-type: none"> • 2 courses • Each course must be at least 3 credits. 	<p>ANT-101, 102*, 103*, 232*</p> <p>CJA-101, 201</p> <p>EC-201, 202</p> <p>GEO-100*, 110*, 130*, 208*</p> <p>HE-163, 164</p> <p>HST-101*, 102*, 103*, 130*, 131*, 132*, 136*, 137*, 138*, 201*, 202*, 203*</p> <p>HUM-237*</p> <p>PS-200*, 201, 203, 204, 205, 225, 297</p> <p>PSY-200, 205*, 215, 219*, 231*</p> <p>SOC-204*, 205*, 206*, 210*, 225*</p> <p>SSC-235*, 237*, 240*, 241*, 242*</p> <p>WS-101*</p>

<p>GENERAL EDUCATION DISTRIBUTION AREA</p> <p>Natural Science</p> <ul style="list-style-type: none"> • 2 lab science courses • Each course must be at least 4 credits. 	<p>EOU, SOU, or WOU 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</p> <p>OSU, PSU, or UO BI-211 and 212 Or CH-221 and 222 Or PH-211 and 212</p>
<p>Cultural Literacy</p> <ul style="list-style-type: none"> • 1 course 	<p>Courses meeting the Cultural Literacy requirement are noted with an asterisk.</p>
<p>Computer Science Specific Requirements</p> <ul style="list-style-type: none"> • 4-5 courses 	<p>EOU, SOU, or WOU: CS- 160, 161, 162, 260</p> <p>OSU, PSU, or UO CS-160, 161, 162, 205, 260</p>
<p>Elective Courses</p> <p>Any college-level course that would bring total credits to 90 credits.</p>	<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 and up to 3 credits of Physical Education activity courses (PE-185, PE-194, PE-294) - Please refer to the Elective Course List for courses that may be included - Up to 3 credits of PE

* Course meets Cultural Literacy requirement.

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



Some of the universities have recommendations for elective courses that appear in the schedule for their cluster; following those recommendations will give the student more choice once they transfer. Those recommendations are documented in the following table. The way to use this table is as follows: if a student has decided to transfer to a particular university, the student should attempt to follow those recommendations for any remaining electives in their MTM-CS studies. Note that there is no guarantee that following the recommendations for one university in a cluster will also serve the same purpose in another university in that cluster.

Table B.1

Elective	EOU	SOU	WOU
7 Electives	<ul style="list-style-type: none"> • C++ programming course • A&L 3 in a 2nd or 3rd disc • SS 3 in a 2nd or 3rd disc • A general elective that fulfills “Difference, Power & Discrimination” Baccalaureate Core requirement 	<ul style="list-style-type: none"> • 200-level database • 200-level computer org/architecture • CS 250 OR MTH 231 • 200-level web design • 200-level networking • 200-level OO programming course • 200-level C/C++ course if neither used in 161/162 	<ul style="list-style-type: none"> • CS 205 (Comp Arch)

Table B.2

Elective	OSU	PSU	UO
3 electives	<ul style="list-style-type: none"> • WR 122 (min grade C) • A general elective that fulfills “Difference, Power & Discrimination” Baccalaureate Core requirement • a general elective that is equivalent to HHS 231, Physical Activity or PAC equivalent • CS 290 (if offered at your college) 	<ul style="list-style-type: none"> • MTH 253 • MTH 261 (linear alg) • Additional science elective (4 credits) from Bio, Chem, Phys, Geol, or Env Sci • Additional ASOT-approved A&L or ASOT-approved SS elective 	<ul style="list-style-type: none"> • At least 7 credits of ASOT-approved A&L courses • At least 7 credits of ASOT-approved SS courses



March 3, 2023

Course	Current Hours/Credits	Proposed Hours/Credits
WR-101	33 LECT/3 Credits	44 LECT/4 Credits

Clackamas Community College
Online Course/Outline Submission System

Show changes since last approval in red

Print

Edit

Delete

Back

Section #1 General Course Information

Department: English

Submitter

First Name: **Amanda**

Last Name: **Coffey**

Phone: **3267**

Email: **amandac**

Course Prefix and Number: WR - 101

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: **Workplace Writing**

Course Description:

Students in this course learn and practice basic modes of technical writing, including summaries, process analysis, instructions, and reports.

Type of Course: Lower Division Collegiate

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): Automotive Service Technology AAS and Welding Technology Certificate

Are there prerequisites to this course?

Yes

Pre-reqs: WRD-098 or placement in WR-101 or WR-121

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

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

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?

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

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

Yes

Area: Communication

GRADING METHOD:

A-F or Pass/No Pass

Audit: Yes

When do you plan to offer this course?

- ✓ **Summer**
- ✓ **Fall**
- ✓ **Winter**

✓ Spring

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. create clearly written occupationally-related documents of varying length, with few errors, using a process that includes generating ideas, drafting, critiquing, revising, and polishing;
2. plan, organize, and present documents according to the logical and stylistic demands of specific target audiences and writing situations;
3. identify and apply basic elements of technical and professional writing, such as clarity of purpose, language accuracy, logical organization, visual referencing, and prescribed formatting;
4. participate constructively and respectfully in discussions and writing groups, independently analyze and improve their own and others' writing, and reflect independently on their own learning.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Papers: process analysis; description of mechanism; definition; informative summary of article; field report; claim and adjustment letters; updated resume.
2. The Writing Process: This topic area introduces students to methods of process oriented writing. Topics covered are prewriting, drafting and revising surrounding documents found in the workplace.
3. Format: Students learn appropriate format for professional documents commonly found in the workplace.
4. Grammar and Mechanics: Students review grammatical rules and fine tune writing concepts which are both mechanical and stylistic (e.g. sentence structure, paragraphing, etc.).

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%

Section #2 Course Transferability

Concern over students taking many courses that do not have a high transfer value has led to increasing attention to the transferability of LDC courses. The state currently requires us to certify that at least one OUS school will accept a

new LDC course in transfer. Faculty should communicate with colleagues at one or more OUS schools to ascertain how the course will transfer by answering these questions.

1. Is there an equivalent lower division course at the University?
2. Will a department accept the course for its major or minor requirements?
3. Will the course be accepted as part of the University's distribution requirements?

If a course transfers as an elective only, it may still be accepted or approved as an LDC course, depending on the nature of the course, though it will likely not be eligible for Gen Ed status.

Which OUS schools will the course transfer to? (Check all that apply)

Identify comparable course(s) at OUS school(s)

How does it transfer? (Check all that apply)

:

First term to be offered:

Next available term after approval

:

Program	Implementation
AS Degree Transfer, Computer Science	2023/SU
Auto Body/Collision Repair and Refinishing Technology, AAS	2023/SU
Automotive Service Technology, AAS	2023/SU
Computer & Network Administration, AAS	2023/SU
Computer & Network Administration, Certificate	2023/SU
Computer Application Specialist, Certificate	2023/SU
Computer-Aided Manufacturing, AAS	2023/SU
Dental Assistant, Certificate	2023/SU
Early Childhood Education & Family Studies, AAS	2023/SU
Early Childhood Education & Family Studies, Certificate	2023/SU
EFA, Industrial Technology & Automotive	2023/SU
Fitness Technology, Certificate	2023/SU
Gerontology, Certificate	2023/SU
Healthcare Careers, Certificate	2023/SU
Horticulture, AAS	2023/SU
Horticulture, Certificate	2023/SU
Human Services Generalist, AAS	2023/SU
Human Services Generalist, Certificate	2023/SU
Industrial Maintenance Technology Mechanical Maintenance, Certificate	2023/SU
Industrial Maintenance Technology, AAS	2023/SU
Industrial Maintenance Technology, Certificate	2023/SU
Landscape Management, AAS	2023/SU
Landscape Management, Arboriculture Option, AAS	2023/SU
Machine Tool Technology, AAS	2023/SU
Machine Tool Technology, Certificate	2023/SU
Medical Assistant CC	2023/SU
Microelectronics Systems Technology, AAS	2023/SU
Microelectronics Systems Technology, Certificate	2023/SU
Music Performance & Technology, AAS	2023/SU
Music Technology, Certificate	2023/SU
Occupational Skills Training, Certificate	2023/SU
Organic Farming, Certificate	2023/SU
Renewable Energy Technology, AAS	2023/SU
Renewable Energy Technology, Certificate	2023/SU
Water & Environmental Technology, AAS	2023/SU
Water & Environmental Technology, Certificate	2023/SU
Welding Technology, AAS	2023/SU
Welding Technology, Certificate	2023/SU
Wildland Fire Management, AAS	2023/SU
Wildland Fire Science, Certificate	2023/SU

WR-101 Amendments

Program Name	Current Credits	Proposed Credits
Auto Body/Collision Repair and Refinishing Technology, AAS	91-92	92
Automotive Service Technology, AAS	90-91	91
Computer & Network Administration, AAS	90-95	91-95
Computer & Network Administration, Certificate	52-56	53-56
Computer Application Specialist, Certificate	52-54	53-54
Computer-Aided Manufacturing, AAS	96-97	97-98
Dental Assistant, Certificate	53-54	54
EFA, Industrial Technology & Automotive	12-15	13-15
Fitness Technology, Certificate	45-47	46-47
Gerontology, Certificate	45-46	46
Healthcare Careers, Certificate	13-14	14
Horticulture, AAS	96-101	97-101
Horticulture, Certificate	52-54	53-54
Human Services Generalist, AAS	90-92	91-92
Human Services Generalist, Certificate	45-48	46-48
Industrial Maintenance Technology Mechanical Maintenance, Certificate	47	48
Industrial Maintenance Technology, AAS	97-98	98-99
Industrial Maintenance Technology, Certificate	52	53
Landscape Management, AAS	96-98	97-98
Landscape Management, Arboriculture Option, AAS	97-99	98-99
Machine Tool Technology, AAS	96-99	97-100
Machine Tool Technology, Certificate	50	51
Medical Assistant, Certificate	45	47
Microelectronics Systems Technology, AAS	91	92
Microelectronics Systems Technology, Certificate	47	48
Music Performance & Technology, AAS	95-97	96-97
Music Technology, Certificate	52-54	53-54
Occupational Skills Training, Certificate	49	50
Organic Farming, Certificate	53-56	54-56
Renewable Energy Technology, AAS	98-101	99-101
Renewable Energy Technology, Certificate	49-50	50
Water & Environmental Technology, AAS	90-91	91
Water & Environmental Technology, Certificate	57-58	58
Welding Technology, AAS	93-94	90-93
Welding Technology, Certificate	50	45-46
Wildland Fire Management, AAS	90-94	91-94
Wildland Fire Science, Certificate	45-48	46-48



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Auto Body/Collision Repair and Refinishing Technology AAS.ABCOLRRTECH	47.060			✓ AAS (90-108 credits)	91-92
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Related Programs: Auto Body Specialist Auto Body/Collision Repair and Refinishing Technology				<input type="checkbox"/> Certificate of Completion	

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

LAST AMENDMENT APPROVED ON 01.20.23

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: 92
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				PROPOSED CURRICULUM 23-24			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
Auto Body/Collision Repair and Refinishing Technology Associate of Applied Science Degree: 1st Year							
Fall							
AB-112	Collision Repair Welding I	48	2				
AB-113	Collision Repair I/Nonstructural	132	6				
ABR-125	Collision Repair/Refinishing I	132	6				
MTH-050 Or MTH-065	Technical Mathematics I or Algebra II	44	4				
Winter							
AB-123	Collision Repair Welding II	48	2				
AB-133	Collision Repair II/Structural	132	6				
ABR-127	Collision Repair/Refinishing II	132	6				
Spring							
AB-222	Collision Repair III/Advanced Structural	132	6				
ABR-129	Collision Repair/Refinishing III	132	6				
--	Human Relations requirement (Recommended: COMM-100Z or PSY-101)		3				
Auto Body/Collision Repair and Refinishing Technology Associate of Applied Science Degree: 2nd Year							
Fall							
AB-149	Collision Repair Estimating I	28	2				
AB-224	Collision Repair IV/Advanced Structural	132	6				
ABR-225	Production Shop Techniques	132	6				
--	PE/Health/Safety/First Aid requirement (see page 82) (Recommended: HE-252 or MFG-107)		3				
Winter							
AB-150	Collision Repair Computerized Estimating - Audatex	44	2				
AB-226	Collision Repair V/Advanced Structural	132	6				
AB-235	Collision Repair Welding III	48	2				
ABR-227	Restoration Practices	132	6				
Spring							

AB-151	Collision Repair Computerized Estimating - CCC ONE	44	2				
AB-280	Collision Repair/CWE	216	6				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or English Composition I	33- 44	3-4	WR-101 Or WR-121Z	Workplace Writing or English Composition I	44	4
TOTAL CURRENT CREDITS:			91-92	TOTAL PROPOSED CREDITS:			92

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



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

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

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

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

PROGRAM INFORMATION			
<u>APPROVED</u> Program Title	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)	<u>APPROVED</u> Recognition Award	Current Credits
(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>
AAS Title: Automotive Service Technology AAS.AUTOSERTECH	47.0604	<input checked="" type="checkbox"/> AAS (90-108 credits)	90-91
Option Title**		<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <u>Within</u> AAS Degree? <input type="checkbox"/> Yes** <input type="checkbox"/> No Related programs: Under Car Technician-Automatic Transmission CPCC Under Car Technician-Manual Transmission CPCC		<input type="checkbox"/> Certificate of Completion	

LAST AMENDMENT APPROVED ON 01.20.23

TYPE OF PROGRAM AMENDMENT	
(Check ALL That Apply)	
<input type="checkbox"/> New Program++	<input checked="" type="checkbox"/> Curriculum Revision
<input type="checkbox"/> Title Change for Program	<input checked="" type="checkbox"/> Revision in Program Credits
	Proposed Total Credits: 91
Proposed AAS Title:	
Proposed OPTION Title:	
Proposed Certificate Title:	
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>
Suspension Effective Date:	

++If new program is an additional award for an existing degree or certificate, complete 'Program Information' section for existing program

CURRICULUM AMENDMENT

<i>CURRENT CURRICULUM 22-23</i>				<i>PROPOSED CURRICULUM 23-24</i>			
Course	Course Title	Hours	Credits	Course	Course Title	Hours	Credits
Automotive Service Technology Associate of Applied Science Degree: 1 st Year							
Fall Term							
AM-101	Intro to Automotive Service Technology	24	2				
AM-129	Electrical Systems I	100	5				
AM-130	Brake Systems	100	5				
MTH-050 Or MTH-065	Technical Mathematics I or Algebra II	44	4				
Winter Term							
AM-131	Suspensions Systems	100	5				
AM-133	Engine Systems	100	5				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33- 44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	44	4
--	PE/Health/Safety/First Aid requirement (see page 82) (Recommended: HE-252 or MFG-107)		3				
Spring Term							
AM-135	Power Transmission Systems	100	5				
AM-142	Engine Performance I	100	5				
--	Human Relations requirement (Recommended: PSY- 101 or COMM-100Z)		3				
Automotive Service Technology Associate of Applied Science Degree: 2 nd Year							
Fall Term							
AM-201	Automotive Internship	33	3				
AM-224	Comfort Systems	100	5				
AM-229	Electrical Systems II	100	5				
Winter Term							
AM-242	Engine Performance II	100	5				
AM-245	Automatic Transmission Systems	100	5				
AM-280	Auto Mechanics/CWE	216	6				
Spring Term							
AM-223	Alternative Fuels Transportation Technology	100	5				
AM-225	Safety Systems	100	5				
AM-228	Service Shop Management	44	4				
WLD-102	Introduction to Welding	44	2				
TOTAL CURRENT CREDITS:			90-91	TOTAL PROPOSED CREDITS:			91

College Contact	Jay Leuck	Telephone No.	3052
E-Mail Address		Fax No.	
Chief Academic Officer <i>or</i> PTE Dean Signature		Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
	6-digit CIP	7 th digit	8 th digit		
AAS Title: Computer & Network Administration AAS.COMPNETADMIN	11.0901			<input checked="" type="checkbox"/> AAS (90-108 credits)	90-95
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <u>Within</u> AAS Degree? <input type="checkbox"/> Yes** <input type="checkbox"/> No Related Program: Computer & Network Administration Certificate				<input type="checkbox"/> Certificate of Completion	

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

Last amendment approved 01.20.23

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 91-95
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Computer & Network Administration Associate of Applied Science: 1st Year							
Fall Term							
CS-140	Introduction to Operating Systems	44	4				
CS-227	Computer Hardware & Repair	66	4				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33- 44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	44	4
Winter Term							
CS-151	Networking 1	66	4				
CS-228	Computer OS Maintenance & Repair	66	4				
CS-240W	Windows Desktop Administration	55	3				
--	Computer & Network Administration program elective		3-5				
Spring Term							
CS-152	Networking 2	66	4				
CS-225	Computer End User Support	44	3				
CS-240L	Linux Administration I	44	4				
CS-279W	Windows Server Administration	60	4				
Summer Term							
CS-125H	HTML & Web Site Design	33	3				
CS-280	Computer Science/CWE	108	3				
--	Computation requirement (see catalo)		3				
--	Human Relations requirement (see catalog)		3-4				
Computer & Network Administration Association of Applied Science Degree: 2nd Year							
Fall Term							
CS-135DB	Microsoft Access	33	3				
CS-153	Networking 3	66	4				
CS-280	Computer Science/CWE	108	3				
--	PE/Health/Safety/First Aid requirement (see catalog)		1				
--	Computer & Network Administration program elective		3-4				
Winter Term							

CS-240M	macOS Administration	55	3				
CS-275	Database Design	33	3				
CS-284	Network Security	66	3				
CS-288W	Windows Network Administration	66	4				
Spring Term							
CS-280	Computer Science/CWE	108	3				
CS-297N	Networking Capstone	66	4				
--	Computer & Network Administration program elective		4				
Computer & Network Administration Program Electives							
BA-101 Or BA-103	Introduction to Business or Business Strategies for Computer Consultants	33-44	3-4				
BA-120	Project Management Fundamentals	44	4				
BT-177	Microsoft Project	33	3				
FYE-101	First Year Experience Level I	22	2				
WR-227Z	Technical Writing	44	4				
--	Any computer science course numbered CS-125 or higher		3-4				
TOTAL CURRENT CREDITS:			90-95	TOTAL PROPOSED CREDITS:			91-95

College Contact	Rick Carino	Telephone No.	3167
E-Mail Address		Fax No.	
Chief Academic Officer <i>or</i> PTE Dean Signature		Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	<u>Curren</u> <u>t</u> Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Computer & Network Administration 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 Computer & Network Administration CC.COMPNETADMIN	11.0901			<input checked="" type="checkbox"/> CC1R Related Certificate (45-60 credits)	52-56

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

Last amendment approved on 01.20.23

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: 53-56
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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

CURRICULUM AMENDMENT

CURRENT CURRICULUM 22-23

PROPOSED CURRICULUM 23-24

Course	Title	Hours	Credits	Course	Title	Hours	Credits
Computer & Network Administration Certificate							
Fall Term							
CS-140	Introduction to Operating Systems	44	4				
CS-227	Computer Hardware & Repair	66	4				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33- 44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	33- 44	4
Winter Term							
CS-151	Networking 1	66	4				
CS-228	Computer OS Maintenance & Repair	66	4				
CS-240W	Windows Desktop Administration	55	3				
--	Computer & Network Administration program elective		3-5				
Spring Term							
CS-152	Networking 2	66	4				
CS-225	Computer End User Support	44	3				
CS-240L	Linux Administration I	44	4				
CS-279W	Windows Server Administration	60	4				
Summer Term							
CS-125H	HTML & Web Site Design	33	3				
CS-280	Computer Science/CWE	108	3				
--	Computation requirement (see catalog)		3				
--	Human Relations requirement (see catalog)		3-4				
Computer & Network Administration Program Electives							
BA-101 Or BA-103	Introduction to Business or Business Strategies for Computer Consultants	33-44	3-4				
BA-120	Project Management Fundamentals	44	4				
BT-177	Microsoft Project	33	3				
FYE-101	First Year Experience Level I	22	2				
WR-227Z	Technical Writing	44	4				
--	Any computer science course numbered CS-125 or higher		3-4				

TOTAL <i>CURRENT</i> CREDITS:	52-56	TOTAL <i>PROPOSED</i> CREDITS:	53-56
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College Contact	Rick Carino	Telephone No.	3167
E-Mail Address		Fax No.	
Chief Academic Officer <i>or</i> PTE Dean Signature		Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title:				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <i>Within</i> AAS Degree? <input checked="" type="checkbox"/> Yes** <input type="checkbox"/> No Computer Application Specialist CC.COMPAPPSPECIAL	11.0202			<input checked="" type="checkbox"/> CC1 Certificate (45-60 credits)	52-54

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

Last amendment approved on 01.20.23

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: 53-54
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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

CURRICULUM AMENDMENT

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

<i>CURRENT CURRICULUM 22-23</i>				<i>PROPOSED CURRICULUM 23-24</i>			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Fall Term							
CS-140	Introduction to Operating Systems	44	4				
CS-227	Computer Hardware & Repair	66	4				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33- 44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	44	4
--	Computer Application Specialist program electives		3-4				
Winter Term							
CS-135S	Microsoft Excel	33	3				
CS-135W	Microsoft Word	33	3				
CS-151	Networking I	66	4				
CS-240W	Windows Desktop Administration	55	3				
Spring Term							
BA-103	Business Strategies for Computer Consultants	33	3				
CS-135DB	Microsoft Access	33	3				
CS-225	Computer End User Support	44	3				
CS-240L	Linux Administration I	44	4				
Summer Term							
CS-125H	HTML & Web Site Design	33	3				
CS-280	Computer Science/CWE	108	3				
--	Computation requirement (see catalog)		3				
--	Human Relations requirement (see catalog)		3				
Computer Application Specialist Program Electives							
BA-101 Or BA-103 Or BA-120	Introduction to Business or Business Strategies for Computer Consultants or Project Management Fundamentals	33-44	3-4				
BT-177	Microsoft Project	33	3				
--	Any computer science course numbered CS-125 or higher		3-4				
TOTAL CURRENT CREDITS:			52-54	TOTAL PROPOSED CREDITS:			53-54

College Contact	Debra Carino	Telephone No.	3170
E-Mail Address		Fax No.	
Chief Academic Officer <i>or</i> PTE Dean Signature		Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	<u>Curren</u> <u>t</u> Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Computer-Aided Manufacturing AAS.COMPAIDEMFG	15.1302	I	*	<input checked="" type="checkbox"/> AAS (90-108 credits)	96-97
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <u>Within</u> AAS Degree? <input type="checkbox"/> Yes** <input type="checkbox"/> No				<input type="checkbox"/> Certificate of Completion	

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

LAST AMENDMENT APPROVED ON 03.04.22

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: 97-98
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Computer-Aided Manufacturing Associate of Applied Science Degree: 1 st Year							
Fall							
CDT-102	Sketching & Problem Solving	66	3				
MTH-050**	Technical Mathematics I	44	4				
MTT-111	Manual Machining I	88	4				
MTT-121	CNC I: Set-Up and Operation	88	4				
Winter							
CDT-108A	Introduction to SolidWorks	66	3				
MTH-080**	Technical Mathematics II	33	3				
MTT-112	Manual Machining II	88	4				
MTT-122	CNC II: Programming and Operation	88	4				
WR-101**	Communication Skills: Occupational Writing	33	3	WR-101**	Workplace Writing	44	4
Spring							
CDT-225	Advanced SolidWorks	66	3				
MFG-221	Materials Science	66	3				
MTT-123	CNC III: Applied Programming and Operation	88	4				
MTT-141	CAD/CAM I	88	4				
--	Human Relations Requirement		3				
Computer-Aided Manufacturing Associate of Applied Science Degree: 2 nd Year							
Fall							
CDT-130 or CDT-223	Introduction to Fusion or Inventor Fundamentals	44-66	2-3				
EET-215	Technical Mechanics	66	3				
MFG-130	Basic Electricity I	33	3				
MFG-218	Lean Manufacturing and Quality Systems	33	3				
MTT-241	CAD/CAM II	88	4				
Winter							
CDT-103	Computer-Aided Drafting I	66	3				
EET-225	Mechatronics I	44	2				
EET-233	Programmable Logic Controllers I	33	3				
MFG-107	Industrial Safety & First Aid	33	3				

MFG-209	Programming & Automation for Manufacturing	33	3				
MTT-242	CAD/CAM III	88	4				
Spring							
EET-234	Programmable Logic Controllers II	33	3				
EET-235	Mechatronics II	44	2				
HD-209 Or MFG-280	Job Search Skills Or Manufacturing Technology/CWE	33- 108	3				
MET-170	Introduction to Manufacturing Processes	33	3				
MFG-219	Robotics	66	3				
Notes							
Students with specialized job training needs may be eligible to substitute some classes. Consult your instructor or the department chair for more information.							
**Substitute college transfer courses for these courses if you plan to continue your education at a higher education institution. It is recommended that you consult with a faculty advisor or a staff member in Student Services for the transfer requirements of the specific advanced program or school.							
TOTAL CURRENT CREDITS:				96-97	TOTAL PROPOSED CREDITS:		97-98

College Contact	Mike Mattson	Telephone No.	3322
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title:				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Certificate Title: <i>Within</i> AAS Degree? <input type="checkbox"/> Yes** <input checked="" type="checkbox"/> No Dental Assistant CC.DENTALASST	51.0601			<input checked="" type="checkbox"/> CC1 (45-60 credits)	53-54

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

LAST AMENDMENT APPROVED ON 01.20.23

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

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

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				PROPOSED CURRICULUM 23-24			
Course	Course Title	Hours	Credits	Course	Title	Hours	Credits
First Term							
DA-101	Dental Radiology I	22	2				
DA-101L	Dental Radiology I Lab	33	1				
DA-104	Clinical Procedures I	22	2				
DA-104L	Clinical Procedures I Lab	33	1				
DA-107	Dental Materials I	22	2				
DA-107L	Dental Materials I Lab	33	1				
DA-110	Clinical Practicum I	40	1				
DA-115	Dental Science	22	2				
DA-125	Dental Infection Control	22	2				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33- 44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	44	4
Second Term							
DA-102	Dental Radiology II	22	2				
DA-102L	Dental Radiology II Lab	33	1				
DA-105	Clinical Procedures II	22	2				
DA-105L	Clinical Procedures II Lab	33	1				
DA-108	Dental Materials II	22	2				
DA-108L	Dental Materials II Lab	33	1				
DA-120	Clinical Practicum II	176	5				
PSY-101	Human Relations	33	3				
Third Term							
DA-106	Clinical Procedures III	22	2				
DA-106L	Clinical Procedures III Lab	33	1				
DA-130	Clinical Practicum III	262	8				
DA-135	Pharmacology/Medical Emergencies	22	2				
DA-145	Dental Office Procedures	22	2				
MTH-050 Or MTH-065	Technical Mathematics I or Algebra II	44	4				
Catalog Notes							
Dental lab schedules (am/pm) are based on lottery. Information will be provided at orientation.							
Current Healthcare Provider level CPR (AHA) and First Aid certification are required during practicums. All DA students will be required to complete a criminal history background, provide proof of immunization, and students will be asked to take a drug test as arranged by the department.							
Note: Students must achieve a C or higher grade in all required courses prior to advancing to the next term.							
Core curriculum is sequential and may not be taken out of order. Core curriculum is intended to be completed over three consecutive terms.							

TOTAL <i>CURRENT</i> CREDITS:	53-54	TOTAL <i>PROPOSED</i> CREDITS:	54
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College Contact	health-sciences-questions@clackamas.edu	Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer <i>or</i> PTE Dean Signature		Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title:				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
EFA, Industrial Technology & Automotive EFA.ITECHAUTO				<input checked="" type="checkbox"/> EFA	12-15

Last amendment approved 4/1/2022

TYPE OF PROGRAM AMENDMENT

(Check **ALL** That Apply)

<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits	Proposed Total Credits:	13-15
<input type="checkbox"/> Title Change for Program				
Proposed AAS Title:				
Proposed OPTION Title:				
Proposed Certificate Title:				
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>			
Suspension Effective Date:				

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

CURRICULUM AMENDMENT

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

<i>CURRENT CURRICULUM 22-23</i>				<i>PROPOSED CURRICULUM 23-24</i>			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
FYE-101	First Year Experience Level I		2				
MFG-102	Makerspace: An Introduction to Digital Manufacturing		1-3				
MFG-107	Industrial Safety & First Aid		3				
MFG-130	Basic Electricity I		3				
MTH-050 Or WR-101	Technical Mathematics I Or Communication Skills: Occupational Writing		3-4	MTH-050 Or WR-101	Technical Mathematics I Or Workplace Writing		4
TOTAL <i>CURRENT</i> CREDITS:			12-15	TOTAL <i>PROPOSED</i> CREDITS:			13-15

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



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

College:	Clackamas Community College	Date:	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title:				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Certificate Title: <i>Within</i> AAS Degree? <input type="checkbox"/> Yes** <input checked="" type="checkbox"/> No Fitness Technology CC.FITNESSTECH	31.0501	J	*	<input checked="" type="checkbox"/> CC1 (45-60 credits)	45-47

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

LAST AMENDMENT APPROVED ON 01.20.23

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> 46-47
<i>Proposed AAS Title:</i>		
<i>Proposed OPTION Title:</i>		
<i>Proposed Certificate Title:</i>		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Fall Term							
COMM-218Z	Interpersonal Communication	44	4				
HE-202	Introduction to Fitness Technology Careers	11	1				
PE-240	Strength & Conditioning Theory & Techniques	35	3				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33-44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	44	4
--	Fitness Technology program electives		3				
Winter Term							
COMM-227	Nonverbal Communication	44	4				
HE-252	First Aid/CPR/AED	33	3				
HPE-295	Health & Fitness for Life	60	3				
--	Fitness Technology program electives		4				
Spring Term							
HE-201	Personal Training	33	3				
HE-223	Sports Nutrition	33	3				
MTH-050 Or MTH-065 or higher	Technical Mathematics I Or Algebra II Or higher level Math or Statistics	44	4-5				
PE-280	Physical Education/CWE	108	3				
--	Fitness Technology program elective		4				
Fitness Technology Program Electives							
BA-101	Introduction to Business	44	4				
BA-123	Leadership & Motivation	33	3				
ECE-235	Nutrition, Music & Movement in Early Childhood Education	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-204	Nutrition & Weight Control	33	3				
HE-207	Introduction to Plant Based Living	33	3				

HE-249	Mental Health	33	3				
HE-250	Personal Health	33	3				
HE-263	Body & Drugs III: Marijuana	33	3				
HE-264	Body & Drugs IV: Other Drugs, Other Addictions	33	3				
PE-185	Physical Education	33	1				
PE-260	Care and Prevention of Athletic Injuries	44	2				
PE-270	Sport and Exercise Psychology	33	3				
PE-294A	Philosophy of Coaching	44	2				
PSY-101	Human Relations	33	3				
TOTAL CURRENT CREDITS:			45-47	TOTAL PROPOSED CREDITS:			46-47

College Contact	Tracy Nelson	Telephone No.	3274
E-Mail Address		Fax No.	
Chief Academic Officer <i>or</i> PTE Dean Signature		Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	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:				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Related Certificates: Gerontology for Health Care Professionals CP Nursing Assistant-Gerontology Specialist CP				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Certificate Title: <i>Within</i> AAS Degree? <input type="checkbox"/> Yes** <input checked="" type="checkbox"/> No Gerontology CC.GERONTOLOGY	30.1101			<input checked="" type="checkbox"/> CC1 (45-60 credits)	45-46

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

LAST AMENDMENT APPROVED 01.20.23

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> 46
<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: _____

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 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Fall Term							
GRN-181	Issues in Aging	33	3				
HE-163	Body & Drugs I: Introduction to Abuse & Addiction	33	3				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33- 44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	44	4
--	Gerontology program elective		5				
Winter Term							
GRN-182	Aging and the Body	33	3				
GRN-184	Aging & the Individual	33	3				
HE-164 Or HE-263 Or HE-264	Body & Drugs II: Alcohol or Body & Drugs III: Marijuana or Body & Drugs IV: Other Drugs, Other Addictions	33	3				
HS-154	Community Resources	33	3				
MTH-050 Or MTH-065 Or MTH-098	Technical Mathematics I or Algebra II or College Math Foundations	44	4				
Spring Term							
GRN-179	Careers in Gerontology	11	1				
GRN-183	Death and Dying	33	3				
GRN-280	Gerontology/CWE	108	3				
HS-156	Conducting Human Service Interviews	33	3				
HS-170	Preparation for Field Experience in Human Services	33	3				
--	Gerontology program elective		2				
Gerontology Program Electives							
COMM-140	Introduction to Intercultural Communication	44	4				
CS-120	Survey of Computing	55	4				
ED-258	Multicultural Education	33	3				

FN-110	Personal Nutrition	33	3				
FYE-101	First Year Experience Level I	22	2				
GRN-165	Life Enrichment with Older Adults	33	3				
GRN-290	Special Topics in Gerontology	11-33	1-3				
HE-164	Body & Drugs II: Alcohol	33	3				
HS-100	Introduction to Human Services	33	3				
HS-103	Ethics for Human Service Workers	22	2				
HS-211	Infectious Diseases and Harm Reduction	11	1				
HS-216	Group Counseling Skills	33	3				
HS-232	Case Management	33	3				
HS-256	Advanced Interviewing Skills with Theory	33	3				
NUR-100	Nursing Assistant I	80	7				
NUR-100C	Nursing Assistant I Clinical	82	0				
NUR-101	Certified Nursing Assistant II	60	5				
NUR-101C	Certified Nursing Assistant II Acute Care Clinical	30	0				
PSY-219	Introduction to Abnormal Psychology	44	4				
Catalog Notes							
Other electives may be approved by the Gerontology program advisor.							
TOTAL CURRENT CREDITS:			45-46	TOTAL PROPOSED CREDITS:			46

College Contact	Yvonne Smith	Telephone No.	3207
E-Mail Address		Fax No.	
Chief Academic Officer <i>or</i> PTE Dean Signature		Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title:				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <i>Within</i> AAS Degree? <input type="checkbox"/> Yes** <input checked="" type="checkbox"/> No Healthcare Careers CC.HLTHCAREERS	51.0802			<input checked="" type="checkbox"/> CC (12-30 credits)	13-14

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

Last amendment approved on 01.20.23

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</i> Total Credits: 14
<i>Proposed</i> AAS Title:		
<i>Proposed</i> OPTION Title:		
<i>Proposed</i> Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program		
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 22-23</i>				<i>PROPOSED CURRICULUM 23-24</i>			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
MA-110	Medical Terminology	44	4				
MA-135	Communications and Ethical Practices in Healthcare Settings	33	3				
PSY-101	Human Relations	33	3				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33-44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	44	4
TOTAL <i>CURRENT CREDITS:</i>			13-14	TOTAL <i>PROPOSED CREDITS:</i>			14

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



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Horticulture AAS.HORT1	1.0601			<input checked="" type="checkbox"/> AAS (90-108 credits)	96-101
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Related Certificates: Horticulture Certificate Irrigation Technician CP Plant Health Management CP				<input type="checkbox"/> Certificate of Completion	

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

LAST AMENDMENT APPROVED ON 01.20.23

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 97-101
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
OSU Transfer Courses							
HOR-112	Horticulture Career Exploration	24	2				
HOR-215	Herbaceous Perennials	44	3				
HOR-226	Plant Identification/Fall	44	4				
HOR-228	Plant Identification/Spring	44	4				
Note: Many of the horticulture courses will also transfer as Lower Division Collegiate (LDC) credits.							
Horticulture Associate of Applied Science Degree: 1 st Year							
Fall Term1							
HOR-111	Horticulture Practicum/Fall	44	2				
HOR-115	Horticulture Safety	10	1				
HOR-223	Applied Plant Science	44	4				
HOR-226	Plant Identification/Fall	44	4				
MTH-050 or MTH-065 or higher level math	Technical Mathematics I or Algebra II or higher level Math or Statistics	44	4-5				
Winter Term2							
FYE-101	First Year Experience Level I	22	2				
HOR-133	Horticulture Practicum/Winter	44	2				
HOR-216	Integrated Pest Management	33	3				
HOR-222	Horticultural Computer Applications	20	2				
HOR-227	Plant Identification/Winter	44	4				
HOR-230	Equipment Operation & Maintenance	44	2				
Spring Term3							
HOR-112	Horticulture Career Exploration	24	2				
HOR-120	Pesticide Laws & Safety	12	1				
HOR-140	Soils	33	3				
HOR-143	Horticulture Practicum/Spring	44	2				
HOR-228	Plant Identification/Spring	44	4				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33- 44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	44	4
Summer Term4							
HOR-281 Or HOR-280	Horticulture/CWE or Horticulture/CWE	180	6				

and HOR-282	and Horticulture/CWE						
Horticulture Associate of Applied Science Degree: 2 nd Year							
Fall Term5							
BA-285 Or COMM-100Z	Human Relations in Business or Introduction to Communication	44	4				
HOR-235 Or HOR-236	Weed Identification or Insect Identification	20	2				
SPN-101	First-Year Spanish I	44	4				
--	Horticulture program electives		3				
--	Production and Management Focus Area		2-3				
Winter Term6							
BA-101	Introduction to Business	44	4				
BA-119	Project Management Practices	22	2				
HOR-231	Irrigation Design	44	3				
HOR-237	Disease Identification	20	2				
--	Horticulture program electives		3				
--	Production and Management Focus Area		3				
Spring Term7							
HOR-240	Irrigation Practices	44	3				
--	Horticulture program electives		8				
--	Production and Management Focus Area		2-4				
Production and Management Focus Area Take any 3 classes from this list. Courses are listed in FA, WI, SP order							
Arboriculture							
HOR-262	Treework Practicum I	66	2				
HOR-131	Tree & Shrub Pruning	44	3				
HOR-261	Tree Diagnostics	44	2				
Greenhouse/Nursery							
HOR-130	Plant Propagation Techniques	44	3				
HOR-122	Greenhouse I	44	3				
HOR-142	Greenhouse II	44	3				
Landscape							
HOR-224	Landscape Installation	44	3				
HOR-131	Tree & Shrub Pruning	44	3				
HOR-123	Landscape Maintenance	44	3				
Organic Farming							
HOR-113	Organic Farming Practicum/Fall	55	3				

HOR-136	Organic Farming Practicum/Winter	55	3				
HOR-141	Organic Farming Practicum/Spring	88	4				
Horticulture Program Electives Take 14 credits from this list							
Summer							
HOR-146	Fruit & Berry Growing	44	3				
HOR-211	Native Plant Identification	10	1				
HOR-284	Organic Farming Practicum/Summer	108	3				
Fall							
HOR-113	Organic Farming Practicum/Fall	55	3				
HOR-124	Food Harvest	44	3				
HOR-130	Plant Propagation Techniques	44	3				
HOR-224	Landscape Installation	44	3				
HOR-225	Arboriculture I	33	3				
HOR-235	Weed Identification	20	2				
HOR-236	Insect Identification	20	2				
HOR-252	Kitchen Herbs	20	1				
HOR-262	Treework Practicum I	66	2				
Winter							
HOR-122	Greenhouse I	44	3				
HOR-131	Tree & Shrub Pruning	44	3				
HOR-136	Organic Farming Practicum/Winter	55	3				
HOR-229	Introduction to Landscape Design	44	3				
HOR-239	Tree Climber Training	24	1				
HOR-251	Herbal Products	20	1				
HOR-260	Arboriculture II	33	3				
HOR-290	Special Topics in Horticulture	66	3				
Spring							
HOR-123	Landscape Maintenance	44	3				
HOR-126*	Landscape Water Features	20	1				
HOR-127*	Landscape Lighting	20	1				
HOR-128*	Landscape Stones & Pavers	20	1				
HOR-129*	Landscape Decks & Fences	20	1				
HOR-135	Propagation of Edible Plants	44	3				
HOR-141	Organic Farming Practicum/Spring	88	4				
HOR-142	Greenhouse II	44	3				
HOR-215	Herbaceous Perennials	44	3				
HOR-234*	Advanced Landscape Design	44	3				

HOR-244*	Ecological Landscape Design	44	3				
HOR-246	Organic Farming and Gardening	44	2				
HOR-250	Herb Growing and Gardening	20	1				
HOR-261	Tree Diagnostics	44	2				
Multiple Terms							
BA-223	Principles of Marketing	44	4				
HOR-281 Or HOR-280 And HOR-282	Horticulture/CWE or Horticulture/CWE And Horticulture/CWE	180	6				
WET-109	Backflow Assembly Operation and Testing	66	4				
*Offered Alternate Years							
TOTAL CURRENT CREDITS:			96-101	TOTAL PROPOSED CREDITS:			97-101
College Contact	April Chastain			Telephone No.	3055		
Chief Academic Officer or PTE Dean Signature					Date		



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Horticulture AAS				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Certificate Title: <i>Within</i> AAS Degree? <input checked="" type="checkbox"/> Yes** <input type="checkbox"/> No Horticulture CC.HORT	1.0601			<input checked="" type="checkbox"/> CC1R Related Certificate (45-60 credits)	52-54

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

LAST AMENDMENT APPROVED ON 01.20.23

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</i> Total Credits: 53-54
<i>Proposed</i> AAS Title:		
<i>Proposed</i> OPTION Title:		
<i>Proposed</i> Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

CURRICULUM AMENDMENT

CURRENT CURRICULUM 22-23

PROPOSED CURRICULUM 23-24

Course	Title	Hours	Credits	Course	Title	Hours	Credits
Fall Term							
HOR-111	Horticulture Practicum/Fall	44	2				
HOR-115	Horticulture Safety	10	1				
HOR-223	Applied Plant Science	44	4				
HOR-226	Plant Identification/Fall	44	4				
MTH-050 Or MTH-065 or higher level math	Technical Mathematics I or Algebra II or higher level Math or Statistics	44	4-5				
Winter Term							
FYE-101	First Year Experience Level I	22	2				
HOR-133	Horticulture Practicum/Winter	44	2				
HOR-216	Integrated Pest Management	33	3				
HOR-222	Horticultural Computer Applications	20	2				
HOR-227	Plant Identification/Winter	44	4				
HOR-230	Equipment Operation & Maintenance	44	2				
Spring Term							
BA-285 Or COMM-100Z	Human Relations in Business or Introduction to Communication	44	4				
HOR-112	Horticulture Career Exploration	24	2				
HOR-120	Pesticide Laws & Safety	12	1				
HOR-140	Soils	33	3				
HOR-143	Horticulture Practicum/Spring	44	2				
HOR-228	Plant Identification/Spring	44	4				
Summer Term							
HOR-280	Horticulture/CWE	90	3				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33- 44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	44	4
TOTAL CURRENT CREDITS:			52-54	TOTAL PROPOSED CREDITS:			53-54
College Contact	April Chastain			Telephone No.	3055		
E-Mail Address				Fax No.			
Chief Academic Officer or PTE Dean Signature					Date		



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)	6-digit CIP	7 th digit	8 th digit		
	AAS Title: Human Services Generalist AAS.HUMANSERVGEN	44.0701			<input checked="" type="checkbox"/> AAS (90-108 credits)
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Related Certificates: Alcohol & Drug Counselor CP Human Services Generalist Certificate				<input type="checkbox"/> Certificate of Completion	

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

LAST AMENDMENT APPROVED ON 01.20.23

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:	91-92
Proposed AAS Title:			
Proposed OPTION Title:			
Proposed Certificate Title:			
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>		
Suspension Effective Date:			

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

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Human Services Generalist Associate of Applied Science Degree: 1 st Year							
Fall Term							
HDF-260	Understanding Child Abuse and Neglect	44	4				
HE-163	Body & Drugs I: Introduction to Abuse & Addiction	33	3				
HS-100	Introduction to Human Services	33	3				
WR-101 or WR-121Z	Communication Skills: Occupational Writing or Composition I	33-44	3-4	WR-101 or WR-121Z	Workplace Writing or Composition I	44	4
--	Human Services Generalist program electives		3				
Winter Term							
HE-164 or HE-263 or HE-264	Body & Drugs II: Alcohol or Body & Drugs III: Marijuana or Body & Drugs IV: Other Drugs, Other Addictions	33	3				
HS-103	Ethics for Human Service Workers	22	2				
HS-154	Community Resources	33	3				
MTH-050 Or MTH-065 Or MTH-098	Technical Mathematics I or Algebra II or College Math Foundations	44	4				
--	Human Services Generalist program electives		3				
Spring Term							
HDF-140 Or SOC-210	Contemporary American Families or Marriage, Family, & Intimate Relations	33-44	3-4				
HS-156	Conducting Human Service Interviews	33	3				
HS-170	Preparation for Field Experience in Human Services	33	3				
--	Human Services Generalist program electives		6				
Human Services Generalist Associate of Applied Science Degree: 2 nd Year							

Fall Term							
CJA-214 Or CJA-215	Intimate Partner Violence Or Sexual Abuse and Human Trafficking	33	3				
HS-256	Advanced Interviewing Skills with Theory	33	3				
HS-280	Human Services Generalist I: CWE/Practicum	144	4				
--	Human Services Generalist program electives		4				
Winter Term							
HS-281	Human Services Generalist II: CWE/Practicum	144	4				
PSY-215	Introduction to Developmental Psychology	44	4				
SOC-205	Social Stratification & Social Systems	44	4				
--	Human Services Generalist program electives		3				
Spring Term							
HS-216	Group Counseling Skills	33	3				
HS-232	Case Management	33	3				
HS-282	Human Services Generalist III: CWE/Practicum	144	4				
--	Human Services Generalist program electives		5				
Human Services Generalist Program Electives							
Any course from the following programs not included in the program: Gerontology, Gerontology for Health Care Professionals, Nursing Assistant - Gerontology Specialist, Juvenile Corrections, or Early Childhood Education & Family Studies.							
Any course numbered 100 or above in the following prefixes not included in the program: ASL, CJA, COMM, ECE, ED, FR, FYE, GER, GRN, HD, HDF, HS, MA, MTH, PSY, SOC, SPN, WR, or WS				Any course numbered 100 or above in the following prefixes not included in the program: ASL, CJA, COMM, ECE, ED, FR, FYE, GER, GRN, HD, HDF, HS, MA, MTH, PSY, SOC, SPN, STAT , WR, or WS			
Any of the following courses not included in the program:							
HE-164	Body & Drugs II: Alcohol	33	3				
HE-205	Youth Addictions	33	3	Scheduled for Inactivation 06.30.23			
HE-252	First Aid/CPR/AED	33	3				
HE-263	Body & Drugs III: Marijuana	33	3				
HE-264	Body & Drugs IV: Other Drugs, Other Addictions	33	3				
TOTAL CURRENT CREDITS:			90-92	TOTAL PROPOSED CREDITS:			91-92
College Contact	Yvonne Smith			Telephone No.	3207		
E-Mail Address				Fax No.			
Chief Academic Officer or PTE Dean Signature						Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Human Services Generalist 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 Human Services Generalist CC.HUMANSERVGEN	44.0701			<input checked="" type="checkbox"/> CC1R Related Certificate (45-60 credits)	45-48

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

LAST AMENDMENT APPROVED ON 01.20.23

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 46-48
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Fall Term							
HE-163	Body & Drugs I: Introduction to Abuse & Addiction	33	3				
HS-100	Introduction to Human Services	33	3				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33- 44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	44	4
--	Human Services Generalist program electives		6				
Winter Term							
HDF-260 Or GRN-184	Understanding Child Abuse and Neglect or Aging & the Individual	33-44	3-4				
HS-154	Community Resources	33	3				
MTH-050 Or MTH-065 Or MTH-098	Technical Mathematics I Or Algebra II Or College Math Foundations	44	4				
--	Human Services Generalist program electives		5				
Spring Term							
HDF-140 Or SOC-210	Contemporary American Families or Marriage, Family, & Intimate Relations	33-44	3-4				
HE-164 Or HE-263 Or HE-264	Body & Drugs II: Alcohol or Body & Drugs III: Marijuana or Body & Drugs IV: Other Drugs, Other Addictions	33	3				
HS-156	Conducting Human Service Interviews	33	3				
HS-170	Preparation for Field Experience in Human Services	33	3				
HS-280	Human Services Generalist I: CWE/Practicum	108	3				
Human Services Generalist Program Electives							
Any course from the following programs not included in the program: Gerontology, Gerontology for Health Care							

Professionals, Nursing Assistant - Gerontology Specialist, Juvenile Corrections, or Early Childhood Education & Family Studies.				
Any course numbered 100 or above in the following prefixes not included in the program: ASL, CJA, COMM, ECE, ED, FR, FYE, GER, GRN, HD, HDF, HS, MA, MTH, PSY, SOC, SPN, WR, or WS				Any course numbered 100 or above in the following prefixes not included in the program: ASL, CJA, COMM, ECE, ED, FR, FYE, GER, GRN, HD, HDF, HS, MA, MTH, PSY, SOC, SPN, STAT , WR, or WS
Any of the following courses not included in the program:				
HE-164	Body & Drugs II: Alcohol	33	3	
HE-205	Youth Addictions	33	3	REMOVE
HE-252	First Aid/CPR/AED	33	3	
HE-263	Body & Drugs III: Marijuana	33	3	
HE-264	Body & Drugs IV: Other Drugs, Other Addictions	33	3	
TOTAL CURRENT CREDITS:		45-48		TOTAL PROPOSED CREDITS: 46-48

College Contact	Yvonne Smith	Telephone No.	3207
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	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: Industrial Maintenance Technology AAS.INDMAINTECH	47.0303	I	*	<input checked="" type="checkbox"/> AAS (90-108)
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <u>Within</u> AAS Degree? <input type="checkbox"/> Yes** <input type="checkbox"/> No				<input type="checkbox"/> Certificate of Completion	

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

LAST AMENDMENT APPROVED ON 03.18.22

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input checked="" type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 98-99
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Industrial Maintenance Technology Associate of Applied Science Degree: 1st Year							
Fall Term							
EET-139	Principles of Troubleshooting I	33	2				
IMT-104	Reading Schematics and Symbols	22	2				
MFG-103	Machining for Fabrication & Maintenance	66	3				
MFG-130	Basic Electricity I	33	3				
MTH-050*	Technical Mathematics I	44	4				
Winter Term							
IMT-120	Industrial Machinery I	66	3				
MFG-109	Computer Literacy for Technicians	33	3				
MFG-131	Basic Electricity II	33	3				
MFG-140	Principles of Fluid Power	66	3				
MTH-080*	Technical Mathematics II	33	3				
--	Human Relations Requirement		3				
Spring Term							
IMT-110	Preventative Maintenance	44	2				
IMT-220	Industrial Machinery II	66	3				
MFG-107	Industrial Safety & First Aid	33	3				
MFG-132	Basic Electricity III	33	3				
MFG-221	Materials Science	66	3				
WR-101*	Communication Skills: Occupational Writing	33	3	WR-101*	Workplace Writing	44	4
Industrial Maintenance Technology Associate of Applied Science Degree: 2nd Year							
Fall Term							
EET-215	Technical Mechanics	66	3				
EET-239	Principles of Troubleshooting II	33	2				
IMT-108	Rigging and Lifting	44	2				
WLD-150	Welding Processes	88	4				
--	Program Elective		3				
Winter Term							
EET-225	Mechatronics I	44	2				
EET-233	Programmable Logic Controllers I	33	3				
IMT-230	Introduction to Heating, Ventilation, and Air Conditioning	66	3				

MFG-209	Programming & Automation for Manufacturing	33	3				
--	Program Elective		3				
--	CDT Elective		3				
Spring Term							
EET-234	Programmable Logic Controllers II	33	3				
EET-235	Mechatronics II	44	2				
HD-209 Or MFG-280	Job Search Skills Or Manufacturing Technology/CWE	33- 144	3-4				
IMT-223	Instrumentation & Controls	66	3				
MET-170	Introduction to Manufacturing Processes	33	3				
MFG-219	Robotics	66	3				
Industrial Maintenance Technology Program Electives							
Any course with a CDT, EET, GIS, MET, MFG, MTT, SM, or WLD prefix not included in the Industrial Maintenance Technology program or other technical course with approval.							
CDT Electives							
Any course with a CDT prefix not included in the Industrial Maintenance Technology program.							
Catalog Notes							
*Substitute college transfer courses for these courses if you plan to continue your education at a higher education institution. It is recommended that you consult with a faculty advisor or a staff member in Student Services for the transfer requirements of the specific advanced program or school.							
TOTAL CURRENT CREDITS:			97-98	TOTAL PROPOSED CREDITS:			98-99

College Contact	Mike Mattson	Telephone No.	3322
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	<u>Curren</u> <u>t</u> Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title:				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Certificate Title: <i>Within</i> AAS Degree? <input type="checkbox"/> Yes** <input type="checkbox"/> No Industrial Maintenance Technology CC.INDMAINTECH	47.0303	J	A	<input checked="" type="checkbox"/> CC1 (45-60 credits)	52

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

LAST AMENDMENT APPROVED ON 03.18.22

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</i> Total Credits: 53
<i>Proposed</i> AAS Title:		
<i>Proposed</i> OPTION Title:		
<i>Proposed</i> Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

CURRICULUM AMENDMENT							
CURRENT CURRICULUM 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Fall Term							
EET-139	Principles of Troubleshooting I	33	2				
IMT-104	Reading Schematics and Symbols	22	2				
MFG-103	Machining for Fabrication & Maintenance	66	3				
MFG-130	Basic Electricity I	33	3				
MTH-050*	Technical Mathematics I	44	4				
Winter Term							
IMT-120	Industrial Machinery I	66	3				
MFG-109	Computer Literacy for Technicians	33	3				
MFG-131	Basic Electricity II	33	3				
MFG-140	Principles of Fluid Power	66	3				
MTH-080*	Technical Mathematics II	33	3				
--	Human Relations Requirement		3				
Spring Term							
IMT-110	Preventative Maintenance	44	2				
IMT-220	Industrial Machinery II	66	3				
MFG-107	Industrial Safety & First Aid	33	3				
MFG-132	Basic Electricity III	33	3				
MFG-221	Materials Science	66	3				
WR-101*	Communication Skills: Occupational Writing	33	3	WR-101*	Workplace Writing	44	4
--	Electives		3				
Industrial Maintenance Technology Program Electives							
Any course with a CDT, EET, GIS, MET, MFG, MTT, SM, or WLD prefix not included in the Industrial Maintenance Technology program or other technical course with approval.							
Catalog Notes							
*Substitute college transfer courses for these courses if you plan to continue your education at a higher education institution. It is recommended that you consult with a faculty advisor or a staff member in Student Services for the transfer requirements of the specific advanced program or school.							
TOTAL CURRENT CREDITS:			52	TOTAL PROPOSED CREDITS:			53
College Contact		Mike Mattson		Telephone No.		3322	
E-Mail Address				Fax No.			
Chief Academic Officer						Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title:				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <i>Within</i> AAS Degree? <input type="checkbox"/> Yes** <input type="checkbox"/> No Industrial Maintenance Technology Mechanical Maintenance CC.IMTMECHMAIN	47.0303	J	B	<input checked="" type="checkbox"/> CC1 (45-60 credits)	47

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

LAST AMENDMENT APPROVED ON 03.04.22

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: 48
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	Reason for Suspension:	

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 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Fall Term							
IMT-104	Reading Schematics and Symbols	22	2				
IMT-108	Rigging and Lifting	44	2				
MFG-103	Machining for Fabrication & Maintenance	66	3				
MFG-107	Industrial Safety & First Aid	33	3				
MFG-109	Computer Literacy for Technicians	33	3				
MTH-050	Technical Mathematics I	44	4				
Winter Term							
IMT-120	Industrial Machinery I	66	3				
MFG-140	Principles of Fluid Power	66	3				
MTH-080	Technical Mathematics II	33	3				
WLD-150	Welding Processes	88	4				
--	Human Relations Requirement		3				
Spring Term							
IMT-110	Preventative Maintenance	44	2				
IMT-220	Industrial Machinery II	66	3				
MFG-221	Materials Science	66	3				
WR-101	Communication Skills: Occupational Writing	33	3	WR-101	Workplace Writing	44	4
--	Electives		3				
Industrial Maintenance Technology Program Electives							
Any course with a CDT, EET, GIS, MET, MFG, MTT, SM, or WLD prefix not included in the Industrial Maintenance Technology program or other technical course with approval.							
TOTAL CURRENT CREDITS:			47	TOTAL PROPOSED CREDITS:			48

College Contact	Mike Mattson	Telephone No.	3322
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
Parent AAS Title: Landscape Management AAS				<input type="checkbox"/> AAS	
Option Title** Arboriculture AAS.LANDMGMTARBOR	01.0605	I	*	<input checked="" type="checkbox"/> OPTION to AAS (at least 70% of base AAS, 90-108 credits)	97-99
Certificate Title: <u>Within</u> AAS Degree? <input type="checkbox"/> Yes** <input type="checkbox"/> No				<input type="checkbox"/> Certificate of Completion	

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

LAST AMENDMENT APPROVED ON 01.20.23

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 98-99
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	Reason for Suspension:	
Suspension Effective Date:		

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

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				PROPOSED CURRICULUM 23-24			
Course	Course Title	Hours	Credits	Course	Course Title	Hours	Credits
1 st Year							
Fall Term1							
FYE-101	First Year Experience Level I	22	2				
HE-252**	First Aid/CPR/AED	33	3				
HOR-115	Horticulture Safety	10	1				
HOR-223	Applied Plant Science	44	4				
HOR-226	Plant Identification/Fall	44	4				
HOR-236	Insect Identification	20	2				
Winter Term2							
HOR-131	Tree & Shrub Pruning	44	3				
HOR-216	Integrated Pest Management	33	3				
HOR-222	Horticultural Computer Applications	20	2				
HOR-227	Plant Identification/Winter	44	4				
HOR-230	Equipment Operation & Maintenance	44	2				
HOR-239	Tree Climber Training	24	1				
Spring Term3							
BA-285 or COMM-100Z	Human Relations in Business or Introduction to Communication	44	4				
HOR-120	Pesticide Laws & Safety	12	1				
HOR-140	Soils	33	3				
HOR-228	Plant Identification/Spring	44	4				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing Or Composition I	33-44	3-4	WR-101 Or WR-121Z	Workplace Writing Or Composition I	44	4
Summer Term4							
HOR-211	Native Plant Identification	10	1				
HOR-280	Horticulture/CWE	90	3				
2 nd Year							
Fall Term5							
HOR-225	Arboriculture I	33	3				
HOR-262	Treework Practicum I	66	2				
MTH-050 or MTH-065 or higher	Technical Mathematics I or Algebra II or higher level Math or Statistics	44	4-5				
--	Arboriculture program electives		3				

Winter Term6							
BA-119	Project Management Practices	22	2				
HOR-229	Introduction to Landscape Design	44	3				
HOR-237	Disease Identification	20	2				
HOR-260	Arboriculture II	33	3				
--	Arboriculture program electives		3				
Spring Term7							
HOR-123	Landscape Maintenance	44	3				
HOR-215	Herbaceous Perennials	44	3				
HOR-261	Tree Diagnostics	44	2				
HOR-263	Plant Health Care Practicum	44	2				
HOR-282	Horticulture/CWE	90	3				
--	Arboriculture program electives		3				
Summer Term8							
HOR-281	Horticulture/CWE	180	6				
Arboriculture Program Electives							
Summer							
HOR-146	Fruit & Berry Growing	44	3				
Fall							
HOR-224	Landscape Installation	44	3				
HOR-235	Weed Identification	20	2				
HOR-264	Treework Practicum II (Aerial)	66	2				
Winter							
HOR-231	Irrigation Design	44	3				
HOR-290	Special Topics in Horticulture	66	3				
Spring							
HOR-240	Irrigation Practices	44	3				
HOR-244*	Ecological Landscape Design	44	3				
Multiple Terms							
BA-101	Introduction to Business	44	4				
SPN-101	First-Year Spanish I	44	4				
Catalog Notes							
*Offered alternate years							
**Course may be waived with current CPR certification							
TOTAL CURRENT CREDITS:			97-99	TOTAL PROPOSED CREDITS:			98-99

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



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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

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

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

LAST AMENDMENT APPROVED ON 01.20.23

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: 97-98
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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

CURRICULUM AMENDMENT

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

<i>CURRENT CURRICULUM 22-23</i>				<i>PROPOSED CURRICULUM 23-24</i>			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
OSU Transfer Courses							
HOR-112	Horticulture Career Exploration	24	2				
HOR-215	Herbaceous Perennials	44	3				
HOR-226	Plant Identification/Fall	44	4				
HOR-228	Plant Identification/Spring	44	4				
Note: Many of the horticulture courses will also transfer as Lower Division Collegiate (LDC) credits.							
Landscape Management Associate of Applied Science Degree: 1 st Year							
Fall Term1							
HOR-111	Horticulture Practicum/Fall	44	2				
HOR-115	Horticulture Safety	10	1				
HOR-223	Applied Plant Science	44	4				
HOR-226	Plant Identification/Fall	44	4				
MTH-050 Or MTH-065 or higher level math	Technical Mathematics I or Algebra II or higher level Math or Statistics	44	4-5				
Winter Term2							
FYE-101	First Year Experience Level I	22	2				
HOR-131	Tree & Shrub Pruning	44	3				
HOR-133	Horticulture Practicum/Winter	44	2				
HOR-216	Integrated Pest Management	33	3				
HOR-222	Horticultural Computer Applications	20	2				
HOR-227	Plant Identification/Winter	44	4				
Spring Term3							
BA-285 Or COMM-100Z	Human Relations in Business or Introduction to Communication	44	4				
HOR-120	Pesticide Laws & Safety	12	1				
HOR-140	Soils	33	3				
HOR-143	Horticulture Practicum/Spring	44	2				
HOR-215	Herbaceous Perennials	44	3				
HOR-228	Plant Identification/Spring	44	4				
Summer Term4							
HOR-281 Or HOR-280 And	Horticulture/CWE OR Horticulture/CWE And	180	6				

HOR-282	Horticulture/CWE						
Landscape Management Associate of Applied Science Degree: 2 nd Year							
Fall Term5							
HOR-224	Landscape Installation	44	3				
HOR-235 Or HOR-236	Weed Identification Or Insect Identification	20	2				
SPN-101	First-Year Spanish I	44	4				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33- 44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	44	4
Winter Term6							
BA-119	Project Management Practices	22	2				
HOR-229	Introduction to Landscape Design	44	3				
HOR-230	Equipment Operation & Maintenance	44	2				
HOR-231	Irrigation Design	44	3				
HOR-237	Disease Identification	20	2				
--	Landscape Management program electives		3				
Spring Term7							
BA-101	Introduction to Business	44	4				
HOR-123	Landscape Maintenance	44	3				
Choose two from the following (2 credits):							
HOR-126*	Landscape Water Features	20	1				
HOR-127*	Landscape Lighting	20	1				
HOR-128*	Landscape Stones & Pavers	20	1				
HOR-129*	Landscape Decks & Fences	20	1				
HOR-240	Irrigation Practices	44	3				
--	Landscape Management program electives		3				
Landscape Management Program Electives							
Summer							
HOR-146	Fruit & Berry Growing	44	3				
HOR-211	Native Plant Identification	10	1				
Fall							
HOR-225	Arboriculture I	33	3				
Winter							
CDT-103	Computer-Aided Drafting I	66	3				
HOR-239	Tree Climber Training	24	1				
HOR-260	Arboriculture II	33	3				
HOR-290	Special Topics in Horticulture	66	3				
Spring							
HOR-126*	Landscape Water Features	20	1				
HOR-127*	Landscape Lighting	20	1				
HOR-128*	Landscape Stones & Pavers	20	1				

HOR-129*	Landscape Decks & Fences	20	1				
HOR-234*	Advanced Landscape Design	44	3				
HOR-244*	Ecological Landscape Design	44	3				
HOR-246	Organic Farming and Gardening	44	2				
HOR-261	Tree Diagnostics	44	2				
Multiple Terms							
BA-223	Principles of Marketing	44	4				
WET-109	Backflow Assembly Operation and Testing	66	4				
*Offered alternate years							
TOTAL CURRENT CREDITS:			96-98	TOTAL PROPOSED CREDITS:			97-98

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



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Machine Tool Technology AAS.MACHTECH	15.0613	I	*	<input checked="" type="checkbox"/> AAS (90-108 credits)	96-99
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Related Certificates: CNC Operator CPCC Machine Tool Technology Certificate Mastercam Certificate				<input type="checkbox"/> Certificate of Completion	

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

LAST AMENDMENT APPROVED 03.04.22

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 97-100
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Manufacturing Technology Associate of Applied Science Degree: 1st Year							
Fall Term							
MFG-104	Print Reading	33	3				
MFG-107	Industrial Safety & First Aid	33	3				
MTH-050*	Technical Mathematics I	44	4				
MTT-111	Manual Machining I	88	4				
MTT-121	CNC I: Set-Up and Operation	88	4				
Winter Term							
MFG-109	Computer Literacy for Technicians	33	3				
MTH-080	Technical Mathematics II	33	3				
MTT-112	Manual Machining II	88	4				
MTT-122	CNC II: Programming and Operation	88	4				
--	Human Relations requirement (see catalog)		3				
Spring Term							
MTT-113	Manual Machining III	88	4				
MTT-123	CNC III: Applied Programming and Operation	88	4				
MTT-141	CAD/CAM I	88	4				
WR-101*	Communication Skills: Occupational Writing	33	3	WR-101*	Workplace Writing	44	4
Manufacturing Technology Associate of Applied Science Degree: 2nd Year							
Fall Term							
MFG-106	Advanced Applied Geometric Dimensioning and Tolerancing for Manufacturing	33	3				
MFG-218	Lean Manufacturing and Quality Systems	33	3				
MTT-241	CAD/CAM II	88	4				
MTT-252	Macro Programming and Machine Probing	66	3				
--	Machine Tool Technology program electives		3-4				
Winter Term							
MFG-264	CMM Set-up and Operation	44	2				
MTT-242	CAD/CAM III	88	4				
MTT-253	5-Axis Machining	66	3				
MTT-268	Capstone Machining I	66	3				

--	Machine Tool Technology program electives		3-4				
Spring Term							
HD-209 Or MFG-280	Job Search Skills Or Manufacturing Technology/CWE	33-108	3				
MFG-221	Materials Science	66	3				
MTT-254	Mill/Turn Machining	66	3				
MTT-269	Capstone Machining II	66	3				
--	Machine Tool Technology program electives		3-4				
Machine Tool Technology Program Electives							
Any MFG or MTT course not included in the program, or any of the following:							
CDT-102	Sketching & Problem Solving	66	3				
CDT-103	Computer-Aided Drafting I	66	3				
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 Fabrication & Maintenance	66	3				
MFG-130	Basic Electricity I	33	3				
MFG-219	Robotics	66	3				
WLD-150	Welding Processes	88	4				
	Other technical courses with department approval		4				
*Substitute college transfer courses for these courses if you plan to continue your education at a higher education institution. It is recommended that you consult with a faculty advisor or a staff member in Student Services for the transfer requirements of the specific advanced program or school.							
Oregon Tech Transfer Courses							
The Industrial Technology Department, in partnership with Oregon Tech, offers a significant number of transferable classes into Oregon Tech's Manufacturing Engineering Technology degree program. For information contact the Industrial Technology Department, 503-594-3318.							
TOTAL CURRENT CREDITS:			96-99	TOTAL PROPOSED CREDITS:			97-100

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



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Machine Tool 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 Machine Tool Technology CC.MACHTECH	15.0613	J	*	<input checked="" type="checkbox"/> CC1R Related Certificate (45-60 credits)	50

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

LAST AMENDMENT APPROVED ON 03.04.22

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 51
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Fall Term							
MFG-104	Print Reading	33	3				
MFG-107	Industrial Safety & First Aid	33	3				
MTH-050*	Technical Mathematics I	44	4				
MTT-111	Manual Machining I	88	4				
MTT-121	CNC I: Set-Up and Operation	88	4				
Winter Term							
MFG-109	Computer Literacy for Technicians	33	3				
MTH-080	Technical Mathematics II	33	3				
MTT-112	Manual Machining II	88	4				
MTT-122	CNC II: Programming and Operation	88	4				
--	Human Relations requirement (see catalog)		3				
Spring Term							
MTT-113	Manual Machining III	88	4				
MTT-123	CNC III: Applied Programming and Operation	88	4				
MTT-141	CAD/CAM I	88	4				
WR-101*	Communication Skills: Occupational Writing	33	3	WR-101*	Workplace Writing	44	4
Catalog Notes							
*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.							
Oregon Tech Transfer Courses							
The Industrial Technology Department, in partnership with Oregon Tech, offers a significant number of transferable classes into Oregon Tech's Manufacturing Engineering Technology degree program. For information contact the Industrial Technology Department, 503-594-3318.							
TOTAL CURRENT CREDITS:			50	TOTAL PROPOSED CREDITS:			51
College Contact	Industrial Technology Department			Telephone No.	3318		
E-Mail Address				Fax No.			
Chief Academic Officer or PTE Dean Signature					Date		



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Microelectronics Systems Technology AAS.MICROSYSTECH	15.0612			<input checked="" type="checkbox"/> AAS (90-108 credits)	91
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Related Certificates: Microelectronics Systems Technology Certificate Semiconductor Operator 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: 92
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Microelectronics Systems Technology Associate of Applied Science Degree: 1 st Year							
First Term							
EET-112	Electronic Equipment and Assembly I	22	1				
EET-137	Electrical Fundamentals I	88	4				
EET-139	Principles of Troubleshooting I	33	2				
EET-157	Digital Logic I	66	3				
MTH-095	Algebra III	44	4				
SM-150	Semiconductor Processing I	22	2				
Second Term							
EET-113	Electronic Equipment and Assembly II	22	1				
EET-141	Electrical Fundamentals II	88	4				
IMT-120	Industrial Machinery I	66	3				
MFG-107	Industrial Safety & First Aid	33	3				
SM-160	Semiconductor Processing II	22	2				
WR-101*	Communication Skills: Occupational Writing	33	3	WR-101*	Workplace Writing	44	4
Third Term							
EET-114	Electronic Equipment and Assembly III	22	1				
EET-142	Electrical Fundamentals III	88	4				
IMT-223	Instrumentation & Controls	66	3				
SM-170	Semiconductor Processing III	22	2				
SM-280	Electronics & Microelectronics/CWE	72	2				
--	Human Relations requirement (see catalog)		3				
Microelectronics Systems Technology Associate of Applied Science Degree: 2 nd Year							
Fourth Term							
EET-127	Semiconductor Circuits I	44	2				
EET-215	Technical Mechanics	66	3				
EET-239	Principles of Troubleshooting II	33	2				
HD-209	Job Search Skills	11	1				
IMT-104	Reading Schematics and Symbols	22	2				
--	Microelectronics Systems Technology program electives		3				

Fifth Term							
EET-227	Semiconductor Circuits II	66	3				
EET-233	Programmable Logic Controllers I	33	3				
ESH-100	Environmental Regulations	22	2				
MFG-140	Principles of Fluid Power	66	3				
MFG-209	Programming & Automation for Manufacturing	33	3				
SM-136	Photolithography	22	2				
Sixth Term							
CH-104	Introductory Chemistry	77	5				
EET-250	Linear Circuits	66	3				
SM-229	Vacuum Technology	22	2				
SM-280	Electronics & Microelectronics/CWE	72	2				
--	Microelectronics Systems Technology program electives		3				
Microelectronics Systems Technology Program Electives							
Any course with a CDT, EET, MFG, RET, SM, or WLD prefix not already in the Microelectronics Systems Technology program.							
Recommended Electives							
CDT-103	Computer-Aided Drafting I		3				
CS-140	Introduction to Operating Systems		4				
EET-225	Mechatronics I		2				
EET-235	Mechatronics II		2				
MFG-219	Robotics		3				
*Substitute college transfer courses for these courses if you plan to continue your education at a higher education institution. It is recommended that you consult with a faculty advisor or a staff member in Student Services for the transfer requirements of the specific advanced program or school.							
Oregon Tech Transfer Courses							
The Industrial Technology Department, in cooperation with Oregon Tech, offers a number of transferable microelectronics classes into Oregon Tech's Electronics Engineering Technology degree program. For information contact the Industrial Technology Department, 503-594-3318.							
TOTAL CURRENT CREDITS:			91	TOTAL PROPOSED CREDITS:			92

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



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Microelectronics Systems 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 Microelectronics Systems Technology CC.MICROSYSTECH	15.0612			<input checked="" type="checkbox"/> CC1R Related Certificate (45-60 credits)	47

**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 checked="" type="checkbox"/> Revision in Program Credits	
<input type="checkbox"/> Title Change for Program		Proposed Total Credits:	48
Proposed AAS Title:			
Proposed OPTION Title:			
Proposed Certificate Title:			
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>		
Suspension Effective Date:			

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

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
First Term							
EET-112	Electronic Equipment and Assembly I	22	1				
EET-137	Electrical Fundamentals I	88	4				
EET-139	Principles of Troubleshooting I	33	2				
EET-157	Digital Logic I	66	3				
MTH-095	Algebra III	44	4				
SM-150	Semiconductor Processing I	22	2				
Second Term							
EET-113	Electronic Equipment and Assembly II	22	1				
EET-141	Electrical Fundamentals II	88	4				
IMT-120	Industrial Machinery I	66	3				
MFG-107	Industrial Safety & First Aid	33	3				
SM-160	Semiconductor Processing II	22	2				
WR-101*	Communication Skills: Occupational Writing	33	3	WR-101*	Workplace Writing	44	4
Third Term							
EET-114	Electronic Equipment and Assembly III	22	1				
EET-142	Electrical Fundamentals III	88	4				
IMT-223	Instrumentation & Controls	66	3				
SM-170	Semiconductor Processing III	22	2				
SM-280	Electronics & Microelectronics/CWE	72	2				
--	Human Relations requirement (see catalog, Recommended: PSY-101)		3				
Oregon Tech Transfer Courses							
<p>The Industrial Technology Department, in cooperation with Oregon Tech, offers a number of transferable microelectronics classes into Oregon Tech's Electronics Engineering Technology degree program. For information contact the Industrial Technology Department, 503-594-3318.</p>							
<p>*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.</p>							

TOTAL <i>CURRENT</i> CREDITS:	47	TOTAL <i>PROPOSED</i> CREDITS:	48
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College Contact	Industrial Technology Department	Telephone No.	3318
E-Mail Address		Fax No.	
Chief Academic Officer <i>or</i> PTE Dean Signature		Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)	6-digit CIP	7 th digit	8 th digit		
	AAS Title: Music Performance & Technology AAS.MUSICPERFTECH	50.0913			<input checked="" type="checkbox"/> AAS (90-108 credits)
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <u>Within</u> AAS Degree? <input type="checkbox"/> Yes** <input type="checkbox"/> No				<input type="checkbox"/> Certificate of Completion	

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

Last amendment approved on 01.20.23

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: 96-97
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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

CURRICULUM AMENDMENT

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

<i>CURRENT CURRICULUM 22-23</i>				<i>PROPOSED CURRICULUM 23-24</i>			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Music Performance & Technology Associate of Applied Science: 1 st Year							
Fall Term							
MUP-150	Contemporary Music Ensemble	44	2				
*MUP-171-191 Or MUP-171J-191J Or MUP-171R-191R	Individual Lessons Or Ind Lessons/Jazz Or Ind Lessons/Rock	20	2				
MUS-101	Music Fundamentals	33	3				
MUS-107	Introduction to Audio Recording I	33	3				
MUS-111L	Music Notation Software I	22	1				
MUS-131	Group Piano: Piano for Pleasure	22	1				
MUS-148	Live Sound Engineering	33	3				
Winter Term							
MUP-150	Contemporary Music Ensemble	44	2				
*MUP-171-191 Or MUP-171J-191J Or MUP-171R-191R	Individual Lessons Or Ind Lessons/Jazz Or Ind Lessons/Rock	20	2				
MUS-102	Music Fundamentals	33	3				
MUS-108	Introduction to Audio Recording II	33	3				
MUS-112L	Music Notation Software I	22	1				
MUS-132	Group Piano: Piano for Pleasure	22	1				
MUS-140	Careers in Music	33	3				
MUS-160	Songwriting I	22	2				
Spring Term							
MTH-050 Or MTH-065 Or higher	Technical Mathematics I or Algebra II or higher level Math or Statistics	44	4-5				
MUP-150	Contemporary Music Ensemble	44	2				
*MUP-171-191 Or MUP-171J-191J Or	Individual Lessons Or Ind Lessons/Jazz Or	20	2				

MUP-171R-191R	Ind Lessons/Rock						
MUS-109	Introduction to Audio Recording III	33	3				
MUS-113L	Music Notation Software I	22	1				
MUS-133	Group Piano: Piano for Pleasure	22	1				
MUS-161	Songwriting II	22	2				
--	PE/Health/Safety/First Aid requirement		1				
Music Performance & Technology Associate of Applied Science: 2 nd Year							
Fall Term							
COMM-100Z	Introduction to Communication	44	4				
MUP-150	Contemporary Music Ensemble	44	2				
*MUP-271-291 Or MUP-271J-291J Or MUP-271R-291R	Individual Lessons Or Ind Lessons/Jazz Or Ind Lessons/Rock	20	2				
MUS-111	Music Theory I	33	3				
MUS-141	Introduction to the Music Business	33	3				
MUS-142	Introduction to Electronic Music I: MIDI	33	3				
MUS-218	MPT Seminar I	11	1				
Winter Term							
MUP-150	Contemporary Music Ensemble	44	2				
*MUP-271-291 Or MUP-271J-291J Or MUP-271R-291R	Individual Lessons Or Ind Lessons/Jazz Or Ind Lessons/Rock	20	2				
MUS-112	Music Theory I	33	3				
MUS-143	Introduction to Electronic Music II: Sequencing, Audio Looping, Sound EFX	33	3				
MUS-219	MPT Seminar II	11	1				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33-44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	44	4
Spring Term							
MUP-150	Contemporary Music Ensemble	44	2				
*MUP-271-291 Or	Individual Lessons Or	20	2				

MUP-271J-291J Or MUP-271R-291R	Ind Lessons/Jazz Or Ind Lessons/Rock						
MUS-113	Music Theory I	33	3				
MUS-144	Introduction to Electronic Music III: Digital Audio	33	3				
MUS-170	Introduction to Scoring Music for Media	22	2				
MUS-220	MPT Seminar III	11	1				
MUS-280	Music/CWE	72	2				
Catalog Notes							
*Lessons must be in same instrument discipline, but may be in different styles.							
TOTAL CURRENT CREDITS:			95-97	TOTAL PROPOSED CREDITS:			96-97

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



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	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:				<input type="checkbox"/> Associate of Applied Science (AAS) Degree
Option Title**				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Certificate Title: <i>Within</i> AAS Degree? <input type="checkbox"/> Yes** <input checked="" type="checkbox"/> No Music Technology CC.MUSICTECH	10.0203			<input checked="" type="checkbox"/> CC1 (45-60 credits)	52-54

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

LAST AMENDMENT APPROVED ON 01.20.23

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</i> Total Credits: 53-54
<i>Proposed</i> AAS Title:		
<i>Proposed</i> OPTION Title:		
<i>Proposed</i> Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

CURRICULUM AMENDMENT

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

<i>CURRENT CURRICULUM 22-23</i>				<i>PROPOSED CURRICULUM 23-24</i>			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Fall Term							
MUS-107	Introduction to Audio Recording I	33	3				
MUS-141	Introduction to the Music Business	33	3				
MUS-142	Introduction to Electronic Music I: MIDI	33	3				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33-44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	44	4
--	Music Technology program basics		3				
--	Music Technology program electives		2				
Winter Term							
COMM-100Z Or COMM-126 Or COMM-140 Or COMM-218Z	Introduction to Communication or Introduction to Gender Communication or Introduction to Intercultural Communication Or Interpersonal Communication	44	4				
MTH-050 Or MTH-065 or higher	Technical Mathematics I or Algebra II or higher level Math or Statistics	44-55	4-5				
MUS-108	Introduction to Audio Recording II	33	3				
MUS-140	Careers in Music	33	3				
MUS-143	Introduction to Electronic Music II: Sequencing, Audio Looping, Sound EFX	33	3				
--	Music Technology program basics		3				
--	Music Technology program electives		2				
Spring Term							

MUS-109	Introduction to Audio Recording III	33	3				
MUS-144	Introduction to Electronic Music III: Digital Audio	33	3				
MUS-280	Music/CWE	72	2				
--	Music Technology program basics		3				
--	Music Technology program electives		2				
Music Technology Program Basics							
MUP-100	Individual Lessons: Non-Music Majors	11	1				
MUS-101	Music Fundamentals	33	3				
MUS-102	Music Fundamentals	33	3				
MUS-103	Music Fundamentals	33	3				
MUS-105	Music Appreciation	33	3				
MUS-111	Music Theory I	33	3				
MUS-112	Music Theory I	33	3				
MUS-113	Music Theory I	33	3				
MUS-131	Group Piano: Piano for Pleasure	22	1				
MUS-132	Group Piano: Piano for Pleasure	22	1				
MUS-133	Group Piano: Piano for Pleasure	22	1				
MUS-134	Group Voice: Anyone Can Sing	22	1				
MUS-135	Group Voice: Anyone Can Sing	22	1				
MUS-136	Group Voice: Anyone Can Sing	22	1				
MUS-137	Group Guitar I	22	1				
MUS-138	Group Guitar II	22	1				
MUS-205	Music Literature: History of Jazz	44	4				
MUS-206	Music Literature: History of Rock	44	4				
Music Technology Program Electives							
MUP-100	Individual Lessons: Non-Music Majors	11	1				
MUP-102	Wind Ensemble	44	2				
MUP-104	Pep Band/Combo-Improv	22	1				
MUP-105	Jazz Ensemble	44	2				
MUP-122	Chamber Choir	44	2				
MUP-125	Vocal Jazz Ensemble: Mainstream	44	2				
MUP-141	College Orchestra	22	1				
MUP-150	Contemporary Music Ensemble	44	2				
MUP-241	College Orchestra	22	1				

MUS-101	Music Fundamentals	33	3				
MUS-102	Music Fundamentals	33	3				
MUS-103	Music Fundamentals	33	3				
MUS-105	Music Appreciation	33	3				
MUS-106	Audio Recording at Home	11	1				
MUS-131	Group Piano: Piano for Pleasure	22	1				
MUS-132	Group Piano: Piano for Pleasure	22	1				
MUS-133	Group Piano: Piano for Pleasure	22	1				
MUS-134	Group Voice: Anyone Can Sing	22	1				
MUS-135	Group Voice: Anyone Can Sing	22	1				
MUS-136	Group Voice: Anyone Can Sing	22	1				
MUS-137	Group Guitar I	22	1				
MUS-138	Group Guitar II	22	1				
MUS-145	Introduction to Digital Sound, Video & Animation	33	3				
MUS-147	Music, Sound & Moviemaking	11	1				
MUS-148	Live Sound Engineering	33	3				
MUS-149	Advanced Pro Tools Editing Techniques	11	1				
MUS-160	Songwriting I	22	2				
MUS-161	Songwriting II	22	2				
MUS-170	Introduction to Scoring Music for Media	22	2				
MUS-171	Sound Design	22	2				
MUS-205	Music Literature: History of Jazz	44	4				
MUS-206	Music Literature: History of Rock	44	4				
MUS-247	Sound for Media	33	3				
TOTAL CURRENT CREDITS:			52-54	TOTAL PROPOSED CREDITS:			53-54

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



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title:				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Certificate Title: <i>Within</i> AAS Degree? <input type="checkbox"/> Yes** <input checked="" type="checkbox"/> No Occupational Skills Training CC.OCCSKILLSTRN	32.0107			<input checked="" type="checkbox"/> CC1 (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		<i>Proposed</i> Total Credits: 50
<i>Proposed</i> AAS Title:		
<i>Proposed</i> OPTION Title:		
<i>Proposed</i> Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

CURRICULUM AMENDMENT

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

<i>CURRENT CURRICULUM 22-23</i>				<i>PROPOSED CURRICULUM 23-24</i>			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Program Requirements							
OST-180	Occupational Skills Training/CWE	864	24				
--	Occupational related courses		15				
Related Instruction Requirements							
MTH-050	Technical Mathematics I	44	4				
WR-101	Communication Skills: Occupational Writing	33	3	WR-101	Workplace Writing	44	4
--	Human Relations requirement (see catalog)		3				
TOTAL CURRENT CREDITS:			49	TOTAL PROPOSED CREDITS:			50

College Contact	Student Academic Support Services Department	Telephone No.	3475
E-Mail Address		Fax No.	
Chief Academic Officer <i>or</i> PTE Dean Signature		Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title:				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Certificate Title: <i>Within</i> AAS Degree? <input type="checkbox"/> Yes** <input checked="" type="checkbox"/> No Organic Farming CC.ORGANICFARM	1.0304			<input checked="" type="checkbox"/> CC1 (45-60 credits)	53-56

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

LAST AMENDMENT APPROVED ON 02.03.23

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		<i>Proposed</i> Total Credits: 54-56
<i>Proposed</i> AAS Title:		
<i>Proposed</i> OPTION Title:		
<i>Proposed</i> Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

++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 22-23</i>				<i>PROPOSED CURRICULUM 23-24</i>			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Fall Term							
HOR-113	Organic Farming Practicum/Fall	55	3				
HOR-124	Food Harvest	44	3				
HOR-223	Applied Plant Science	44	4				
MTH-050 Or MTH-065 Or higher	Technical Mathematics I or Algebra II or higher level Math or Statistics	44- 55	4-5				
--	Organic Farming program electives		2				
Winter Term							
BA-285 Or COMM-100Z	Human Relations in Business or Introduction to Communication	44	4				
HOR-136	Organic Farming Practicum/Winter	55	3				
HOR-216	Integrated Pest Management	33	3				
HOR-230	Equipment Operation & Maintenance	44	2				
Spring Term							
HOR-135	Propagation of Edible Plants	44	3				
HOR-140	Soils	33	3				
HOR-141	Organic Farming Practicum/Spring	88	4				
--	Organic Farming program electives		3-4				
Summer Term							
HOR-146	Fruit & Berry Growing	44	3				
HOR-284	Organic Farming Practicum/Summer	108	3				
HOR-285	Organic Farming/CWE	90	3				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33- 44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	44	4
Organic Farming Program Electives							
BA-223	Principles of Marketing	44	4				
BA-270	Social Media Marketing	44	4				
HOR-235	Weed Identification	20	2				

HOR-236	Insect Identification	20	2				
HOR-237	Disease Identification	20	2				
HOR-240	Irrigation Practices	44	3				
HOR-246	Organic Farming and Gardening	44	2				
HOR-250	Herb Growing and Gardening	20	1				
HOR-251	Herbal Products	20	1				
HOR-252	Kitchen Herbs	20	1				
TOTAL CURRENT CREDITS:			53-56	TOTAL PROPOSED CREDITS:			54-56

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



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)	6-digit CIP	7 th digit	8 th digit		
	AAS Title: Renewable Energy Technology AAS.RNEWNRGYTECH	15.0303	I	B	<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 01.20.23

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: 99-101
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Renewable Energy Technology Associate of Applied Science Degree: 1 st Year							
Fall Term							
EET-139	Principles of Troubleshooting I	33	2				
IMT-104	Reading Schematics and Symbols	22	2				
MFG-130	Basic Electricity I	33	3				
MTH-050	Technical Mathematics I	44	4				
RET-200	Renewable Energy Systems	22	2				
--	Human Relations requirement (see catalog)		3				
Winter Term							
IMT-120	Industrial Machinery I	66	3				
MFG-109	Computer Literacy for Technicians	33	3				
MFG-131	Basic Electricity II	33	3				
MFG-221	Materials Science	66	3				
MTH-080	Technical Mathematics II	33	3				
RET-209	Renewable Energy I: Energy Efficiency	66	3				
Spring Term							
IMT-220	Industrial Machinery II	66	3				
MFG-107	Industrial Safety & First Aid	33	3				
MFG-132	Basic Electricity III	33	3				
RET-211	Renewable Energy II: System Fundamentals	66	3				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing Or Composition I	33-44	3-4	WR-101 Or WR-121Z	Workplace Writing Or Composition I	44	4
Renewable Energy Technology Associate of Applied Science Degree: 2 nd Year							
Fall Term							
IMT-230 Or MFG-103 Or WLD-150	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-213	Renewable Energy III: Installation & Maintenance	66	3				
RET-240	Alternative Fuels	88	4				
Winter Term							
EET-225	Mechatronics I	44	2				
EET-233	Programmable Logic Controllers I	33	3				
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				
--	CDT Elective		3				
Spring Term							
EET-234	Programmable Logic Controllers II	33	3				
EET-235	Mechatronics II	44	2				
HD-209 Or RET-280	Job Search Skills Or Renewable Energy/CWE	33- 144	3-4				
IMT-223	Instrumentation & Controls	66	3				
RET-217	Renewable Energy Capstone Project	66	3				
RET-220	SCADA Fundamentals	66	3				
CDT Electives							
Any course with a CDT prefix not included in the Renewable Energy Technology Program.							
TOTAL CURRENT CREDITS:			98-101	TOTAL PROPOSED CREDITS:			99-101

College Contact	Industrial Technology Department	Telephone No.	3318
E-Mail Address		Fax No.	
Chief Academic Officer <i>or</i> PTE Dean Signature		Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Renewable Energy Technology AAS				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Certificate Title: <i>Within</i> AAS Degree? <input checked="" type="checkbox"/> Yes** <input type="checkbox"/> No Renewable Energy Technology CC.RNEWNRGYTECH	15.0303	J	B	<input checked="" type="checkbox"/> CC1R Related Certificate (45-60 credits)	49-50

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

LAST AMENDMENT APPROVED ON 01.20.23

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 50
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	Reason for Suspension:	
Suspension Effective Date:		

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

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Fall Term							
EET-139	Principles of Troubleshooting I	33	2				
IMT-104	Reading Schematics and Symbols	22	2				
MFG-130	Basic Electricity I	33	3				
MTH-050	Technical Mathematics I	44	4				
RET-200	Renewable Energy Systems	22	2				
--	Human Relations requirement (see catalog)		3				
Winter Term							
IMT-120	Industrial Machinery I	66	3				
MFG-109	Computer Literacy for Technicians	33	3				
MFG-131	Basic Electricity II	33	3				
MFG-221	Materials Science	66	3				
MTH-080	Technical Mathematics II	33	3				
RET-209	Renewable Energy I: Energy Efficiency	66	3				
Spring Term							
IMT-220	Industrial Machinery II	66	3				
MFG-107	Industrial Safety & First Aid	33	3				
MFG-132	Basic Electricity III	33	3				
RET-211	Renewable Energy II: System Fundamentals	66	3				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33-44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	44	4
TOTAL CURRENT CREDITS:			49-50	TOTAL PROPOSED CREDITS:			50

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



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Water & Environmental Technology AAS.WATERENVIRONTECH	15.0506	I	*	<input checked="" type="checkbox"/> AAS (90-108 credits)	90-91
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Related Certificates: High Purity Water Certificate Water & Environmental Technology Certificate				<input type="checkbox"/> Certificate of Completion	

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

LAST AMENDMENT APPROVED ON 01.20.23

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		<i>Proposed Total Credits:</i> 91
<i>Proposed AAS Title:</i>		
<i>Proposed OPTION Title:</i>		
<i>Proposed Certificate Title:</i>		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Water & Environmental Technology Associate of Applied Science Degree: 1st Year							
Fall Term							
MTH-082A	Wastewater Math I	11	1				
MTH-082B	Waterworks Math I	11	1				
WET-110	Wastewater Operations I	33	3				
WET-111	Waterworks Operations I	33	3				
WET-112	Computer Applications for Water and Wastewater Operations	55	4				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33- 44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	44	4
--	Human Relations requirement (Recommended: PSY- 101)		3				
Winter Term							
BI-204	Elementary Microbiology	66	4				
MTH-082C	Wastewater Math II	11	1				
MTH-082D	Waterworks Math II	11	1				
WET-120	Wastewater Operations II	33	3				
WET-121	Waterworks Operations II	33	3				
WET-122	Water Distribution and Wastewater Collection Systems	33	3				
WET-123	Environmental Chemistry I	55	3				
Spring Term							
WET-109	Backflow Assembly Operation and Testing	66	4				
WET-130	Wastewater Operations III	66	4				
WET-131	Water Treatment	66	4				
WET-132	Collection & Distribution Lab	33	1				
WET-134	Environmental Chemistry II	55	3				
WET-180	Water & Environmental Projects I	180	5				
Water & Environmental Technology Associate of Applied Science Degree: 2nd Year							
Fall Term							
GIS-201	Introduction to Geographic Information Systems	66	3				
WET-125	High Purity Water Production I	33	3				
WET-241	Aquatic Microbiology	66	4				
WET-242	Hydraulics for Water & Wastewater	33	3				

WET-245	Instrumentation & Control	66	4				
WET-280	Water & Environmental Projects II	180	5				
Winter Term							
HE-252*	First Aid/CPR/AED (*Course may be waived with current CPR card)	33	3				
MTH-082E	Math for High Purity Water	11	1				
WET-108	Cross-Connection Control Program Specialist	36	3				
WET-135	High Purity Water Production II	66	4				
TOTAL CURRENT CREDITS:			90-91	TOTAL PROPOSED CREDITS:			91

College Contact	Matt LaForce	Telephone No.	3148
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title: Water & Environmental Technology AAS				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Certificate Title: <u>Within</u> AAS Degree? <input checked="" type="checkbox"/> Yes** <input type="checkbox"/> No Water & Environmental Technology CC.WATERENVIRONTECH	15.0506	J	*	<input checked="" type="checkbox"/> CC1R Related Certificate (45-60 credits)	57-58

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

Last amendment approved on 01.20.23

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: 58
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Fall Term							
MTH-082A	Wastewater Math I	11	1				
MTH-082B	Waterworks Math I	11	1				
WET-110	Wastewater Operations I	33	3				
WET-111	Waterworks Operations I	33	3				
WET-112	Computer Applications for Water and Wastewater Operations	55	4				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33-44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	44	4
--	Human Relations requirement (Recommended: PSY-101)		3				
Winter Term							
BI-204	Elementary Microbiology	66	4				
MTH-082C	Wastewater Math II	11	1				
MTH-082D	Waterworks Math II	11	1				
WET-120	Wastewater Operations II	33	3				
WET-121	Waterworks Operations II	33	3				
WET-122	Water Distribution and Wastewater Collection Systems	33	3				
WET-123	Environmental Chemistry I	55	3				
Spring Term							
WET-109	Backflow Assembly Operation and Testing	66	4				
WET-130	Wastewater Operations III	33	4				
WET-131	Water Treatment	33	4				
WET-132	Collection & Distribution Lab	33	1				
WET-134	Environmental Chemistry II	55	3				
WET-180	Water & Environmental Projects I	180	5				
TOTAL CURRENT CREDITS:			57-58	TOTAL PROPOSED CREDITS:			58

College Contact	Matt LaForce	Telephone No.	3148
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

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

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

Last amendment approved on 01.20.23

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input checked="" type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 91-94
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
1 st Year							
Fall Term							
FRP-101	Basic Forest Management	33	3				
FRP-102	Basic Forest Management Lab	33	1				
FRP-130	Introduction to Wildland Firefighting (S-130/S-190/ICS-100/IS-700/L-180)	44	2				
FRP-243	Wilderness I: Psychology of Survival	33	3				
GIS-101	Principles of Geospatial Technology	44	2				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33-44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	44	4
--	Program Electives		1				
Winter Term							
FRP-211	Portable Pumps and Water Use (S-211)	20	2				
FRP-244	Wilderness II: Basic Land Navigation (S-244)	33	3				
FRP-245	Wilderness III: Weather of the Northwest	22	2				
FRP-246	Wilderness IV: Backcountry CPR/First Aid/AED	44	2				
MTH-050 Or MTH-065	Technical Mathematics I Or Algebra II	44	4				
--	Program Electives		2-3				
Spring Term							
BI-103	General Biology; Plants & the Ecosystem	66	4				
BI-103L	General Biology; Plants & The Ecosystem Lab	33	0				
FRP-110	Basic Wildland Fire Investigation (FI-110)	10	1				
FRP-131	Advanced Firefighter Training (S-131/S-133)	12	1				
FRP-205	Forest Management Assessments and Inventories	33	3				
FRP-249	Followership to Leadership (L-280)	20	2				

FRP-250	Wilderness VI: Basic Tool Use and Care	20	1				
FRP-270	Basic Air Operations (S-270)	16	1				
--	Related Instruction: Human Relations		3-4				
2 nd Year							
Fall Term							
FRP-200	Basic Incident Command System (I-100, I-200, IS-700, IS-800)	44	4				
FRP-275	Wildland Fire Management 1	40	4				
GIS-201	Introduction to Geographic Information Systems	66	3				
--	Program Electives		4				
Winter Term							
FRP-215	Fire Operations in the Urban Interface (S-215)	24	2				
FRP-220	Initial Attack Incident Commander (S-200)	16	1				
FRP-265	Wildland Fire Prevention Education 1 (P-101)	33	3				
FRP-290	Intermediate Wildland Fire Behavior (S-290)	32	3				
--	GIS Electives		3				
--	Program Electives		3				
Spring Term							
FRP-212	Wildfire Power Saws (S-212)	40	2				
FRP-230	Crew Boss (Single Resource) (S-230)	24	2				
FRP-231	Engine Boss (Single Resource) (S-231)	12	1				
--	GIS Electives		2-3				
--	Program Electives		7				
Program Electives							
Any EMT, FRP, GEO, GIS, or UAS course not included in the Wildland Fire Management Program.							
TOTAL CURRENT CREDITS:			90-94	TOTAL PROPOSED CREDITS:			91-94
College Contact					Telephone No.		
E-Mail Address					Fax No.		
Chief Academic Officer or PTE Dean Signature						Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	<u>6-digit CIP</u>	<u>7th digit</u>	<u>8th digit</u>		
AAS Title:				<input type="checkbox"/> AAS	
Related Certificates: Wilderness Survival & Leadership CP Wildland Fire Forestry CP Wildland FireFighter 1				<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <i>Within</i> AAS Degree? <input checked="" type="checkbox"/> Yes** <input type="checkbox"/> No Wildland Fire Science CC.FSWILDLAND	43.0203			<input checked="" type="checkbox"/> CC1 (45-60 credits)	45-48

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

LAST AMENDMENT APPROVED ON 01.20.23

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input checked="" type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		Proposed Total Credits: 46-48
Proposed AAS Title:		
Proposed OPTION Title:		
Proposed Certificate Title:		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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 22-23				PROPOSED CURRICULUM 23-24			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
First Term							
FRP-101	Basic Forest Management	33	3				
FRP-102	Basic Forest Management Lab	33	1				
FRP-130	Introduction to Wildland Firefighting (S-130/S-190/ICS-100/IS-700/L-180)	44	2				
FRP-243	Wilderness I: Psychology of Survival	33	3				
GIS-101	Principles of Geospatial Technology	44	2				
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33- 44	3-4	WR-101 Or WR-121Z	Workplace Writing or Composition I	44	4
Second Term							
FRP-211	Portable Pumps and Water Use (S-211)	20	2				
FRP-244	Wilderness II: Basic Land Navigation (S-244)	33	3				
FRP-245	Wilderness III: Weather of the Northwest	22	2				
FRP-246	Wilderness IV: Backcountry CPR/First Aid/AED	44	2				
MTH-050 Or MTH-065	Technical Mathematics I Or Algebra II	44	4				
--	Fire Science (Wildland) program electives		2-3				
Third Term							
BI-103	General Biology; Plants & the Ecosystem	66	4				
BI-103L	General Biology; Plants & The Ecosystem Lab	33	0				
FRP-110	Basic Wildland Fire Investigation (FI-110)	10	1				
FRP-131	Advanced Firefighter Training (S-131/S-133)	12	1				
FRP-205	Forest Management Assessments and Inventories	33	3				
FRP-249	Followership to Leadership (L-280)	20	2				
FRP-250	Wilderness VI: Basic Tool Use and Care	20	1				

FRP-270	Basic Air Operations (S-270)	16	1				
--	Human Relations requirement		3-4				
Wildland Fire Science Program Electives							
Any EMT, FRP, GEO, GIS, or UAS course not included in the Wildland Fire Science program							
TOTAL CURRENT CREDITS:			45-48	TOTAL PROPOSED CREDITS:			46-48

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

Course Number	Title	Implementation
MA-111	Certification Exam Review	2023/SP
MA-113	Seminar I	2023/SP
MA-114	Seminar II	2023/SP

Clackamas Community College
Online Course/Outline Submission System

Print

Edit

Delete

Back

Section #1 General Course Information

Department: HTHS

Submitter

First Name: Sarah

Last Name: Parker

Phone: 0695

Email: sarah.parker

Course Prefix and Number: MA - 111

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: Certification Exam Review

Course Description:

This course is a medical assistant study prep course designed to prepare students for their national credentialing examination. Required: Student Petition.

Type of Course: Career Technical Preparatory

Reason for the new course:

This course is designed to help assist students with the testing skills and review critical content necessary to pass their national exam. This course supports test anxiety associated with a high stakes credentialing exam.

Is this class challengeable?

No

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): Medical Assistant

Are there prerequisites to this course?

Yes

Pre-reqs: MA-112, MA-113, MA-114, MA-116, MA-117, MA-117L, MA-118, MA-118L, and MA-145

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

No

Are there corequisites to this course?

Yes

Co-reqs: MA-115, MA-115L, MA-121, and MA-121L

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

Yes

Recommendations:

Requirements: Student must be enrolled in current Medical Assistant cohort. Student Petition.

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:

Pass/No Pass Only

Audit: No

When do you plan to offer this course?

✓ **Spring**

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. identify and summarize credentialing exam content areas;
2. establish an individualized study plan for completing national credentialing examination requirements;
3. identify the role of professional organizations in providing continuing education opportunities.

This course does not include assessable General Education outcomes.

Major Topic Outline:

Students will study through the entire Exam Content Outline
Students will take pre-test and post-tests to track progress during the course.
Students will review Anatomy and Physiology and Medical Terminology
Students will register for the National Exam

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:

Next available term after approval

:

Clackamas Community College
Online Course/Outline Submission System

Section #1 General Course Information

Department: HTHS

Submitter

First Name: Sarah
Last Name: Parker
Phone: 0695
Email: sarah.parker

Course Prefix and Number: MA - 113

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: Seminar I

Course Description:

This course introduces professionalism in the healthcare setting and explores clinical placement opportunities. Students will demonstrate compliance with Oregon Health Authorities rules for students in clinical training and obtain volunteer experience with a community partner. Required: Student Petition.

Type of Course: Career Technical Preparatory

Reason for the new course:

To prepare students to secure a clinical practicum placement and transition successfully from the classroom/lab to the clinic. Feedback from Advisory Board highlighted the need to prepare students for professional clinical placement.

Is this class challengeable?

No

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): Medical Assistant Certificate

Are there prerequisites to this course?

Yes

Pre-reqs: MA-110, and WR-101 or WR-121. BI-120, or BI-101 & BI-102, or BI-231 & BI-232 & BI-233

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

No

Are there corequisites to this course?

Yes

Co-reqs: MA-112, MA-116 and MA-145

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

Yes

Recommendations: PSY-101

Requirements: Student must be enrolled in current Medical Assistant cohort. Student Petition.

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 Only

Audit: No

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. describe professionalism and how it relates to the delivery of healthcare;
2. create a professional portfolio for clinical practicum placement;
3. demonstrate compliance with Oregon Health Authorities rules for students in clinical training;
4. explore clinical practicum placement opportunities.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Develop essential skills for the Medical Assisting Profession
2. Create a resume and cover letter to be sent to employers for externship
3. Develop interpersonal skills
4. Complete practicum placement documents through OHA and employer's requirements

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:

Next available term after approval

:

Clackamas Community College
Online Course/Outline Submission System

Section #1 General Course Information

Department: HTHS

Submitter

First Name: Sarah
Last Name: Parker
Phone: 0695
Email: sarah.parker

Course Prefix and Number: MA - 114

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: Seminar II

Course Description:

This course will expand on professionalism within the healthcare setting and students will interview and obtain clinical practicum placement. Required: Student Petition.

Type of Course: Career Technical Preparatory

Reason for the new course:

Similar to Seminar I, Seminar II -will continue to develop students' professional skills essential for clinical practicum placement and employment. Students will finalize professional portfolio and interview with employers for clinical placement.

Is this class challengeable?

No

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): Medical Assistant Certificate

Are there prerequisites to this course?

Yes

Pre-reqs: MA-112, MA-113, MA-116, and MA-145

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

No

Are there corequisites to this course?

Yes

Co-reqs: MA-117, MA-117L, MA-118, and MA-118L

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

Yes

Recommendations:

Requirements: Student must be enrolled in current Medical Assistant cohort. Student Petition.

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 Only

Audit: No

When do you plan to offer this course?

✓ **Winter**

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. finalize professional portfolio for clinical practicum placement;
2. interview and secure clinical practicum placement for final term;
3. obtain practicum schedule and employer on-boarding materials;
4. participate in Mock Interviews;
5. identify individual professional goals for clinical practicum placement.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Students will create and submit a final professional portfolio for review
2. Develop professionalism in healthcare skills
3. Develop interviewing skills and participate in mock interviews

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:

Next available term after approval

:



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

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

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

Last amendment approved on 1/20/23

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input checked="" type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		<i>Proposed Total Credits:</i> 47
<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:		

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 22-23</i>				<i>PROPOSED CURRICULUM 23-24</i>			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Medical Assistant Certificate Prerequisite to Acceptance							
BI-120 Or BI-101 & BI-102 Or BI-231 & BI-232 & BI-233	Introduction to Human Anatomy and Physiology or General Biology; Cellular Biology and General Biology; Animal Systems or Human Anatomy & Physiology I and Human Anatomy & Physiology II and Human Anatomy & Physiology III	66	4				
MA-110	Medical Terminology	44	4				
WR-121Z (preferred) Or WR-101	Composition I or Communication Skills: Occupational Writing	33-44	3-4	WR-121Z (preferred) Or WR-101	Composition I or Workplace Writing	44	4
				MTH-050 Or MTH-065 Or higher	Technical Mathematics I Or Algebra II Or higher level MTH or STAT	44	4
Fall Term							
MA-112	Medical Office Practices	44	4				
MA-116	Introduction to Medications	44	4				
MA-145	Insurance & Health Information Management	55	5				
PSY-101	Human Relations	33	3				
				MA-113	Seminar I	22	2
Winter Term							
MA-117	Clinical Lab Procedures I	11	1				
MA-117L	Clinical Lab Procedures I Lab	33	1				
MA-118	Examination Room Techniques	55	5				
MA-118L	Examination Room Techniques Lab	33	1				
MTH-054	Medication Calculations for Medical Assistants	44	4	REMOVE			
				MA-114	Seminar II	22	2

Spring Term (Weeks 1-5)							
MA-115	Phlebotomy for Medical Assistants	11	1				
MA-115L	Phlebotomy for Medical Assistants Lab	33	1				
MA-121	Clinical Lab Procedures II	11	1				
MA-121L	Clinical Lab Procedures II Lab	33	1				
PSY-215	Introduction to Developmental Psychology	44	4				
				MA-111	Certification Exam Review	22	2
Spring Term (Weeks 6-11)							
MA-119	Medical Assistant Practicum	253	9				
Catalog Notes							
<p>To meet graduation requirements in addition to successful completion of courses, the MA student is required to:</p> <ul style="list-style-type: none"> • Participate in an unpaid, supervised externship in an ambulatory care setting. • Perform 20 hours of public health-related community service. • Register for the CMA (AAMA) certification exam. <p>All clinical/practicum courses are Pass/No Pass. All other courses must be passed with C or better.</p> <p>Core curriculum is sequential and may not be taken out of order.</p> <p>For the Certified Medical Assistant (CMA) exam, direct inquiries to: AAMA Certification Department at www.aama-ntl.org or by phone 800-228-2262.</p>							
TOTAL CURRENT CREDITS:			45	TOTAL PROPOSED CREDITS:			47

College Contact	Sarah Parker	Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature	Armetta Burney via email	Date	1/17/23



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)	6-digit CIP	7 th digit	8 th digit		
	AAS Title: Welding Technology AAS.WELDINGTECH	48.0508			<input checked="" type="checkbox"/> AAS (90-108 credits)
Option Title**				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Related Certificates: Entry Level Welder CP Welding Technology Certificate				<input type="checkbox"/> Certificate of Completion	

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

LAST AMENDMENT APPROVED ON 05.06.22

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: 90-93
<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 22-23</i>				<i>PROPOSED CURRICULUM 23-24</i>			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Welding Technology Associate of Applied Science Degree: 1 st Year							
First Term							
MFG-107	Industrial Safety & First Aid	33	3	REMOVE			
MTH-050*	Technical Mathematics I	44	4				
WLD-100	Welder's Print Reading I	33	3				
WLD-111 Or WLD-111A And WLD-111B	Shielded Metal Arc Welding (Stick)	176	8				
Second Term							
MFG-103	Machining for Fabrication & Maintenance	66	3				
MFG-109	Computer Literacy for Technicians	33	3	REMOVE			
WLD-113 Or WLD-113A And WLD-113B	Gas Metal Arc Welding/Flux Core Arc Welding (Wirefeed)	176	8				
WR-101*	Communication Skills: Occupational Writing	33	3	WR-101*	Workplace Writing	44	4
Third Term							
WLD-110	Welder Certification	88	4				
WLD-115 Or WLD-115A And WLD-115B	Gas Tungsten Arc Welding (GTAW)	176	8				
--	Human Relations requirement (see catalog)		3	--	Human Relations requirement (Recommended: COMM-100Z)		3-4
Welding Technology Associate of Applied Science Degree: 2 nd Year							
Fourth Term							
MFG-221	Materials Science	66	3				
WLD-211	Advanced Shielded Metal Arc Welding	88	4				
WLD-250	Welding Fabrication I Beginning Project	88	4				
--*	General electives (any college level course)		3	REMOVE			

--	Welding Technology program elective		2-3	--	Welding Technology program elective		4
Fifth Term							
WLD-200	Welder's Print Reading II	33	3				
WLD-210	Pipe Welding	88	4				
WLD-213	Advanced Gas Metal Arc Welding/Flux Core Arc Welding	88	4				
WLD-251	Welding Fabrication II Intermediate Project	88	4				
Sixth Term							
WLD-215	Advanced Gas Tungsten Arc Welding	88	4				
WLD-252	Welding Fabrication III Advanced Project	88	4				
--	Welding Technology program elective		4				
				IMT-108	Rigging and Lifting	44	2
				--	PE/Health/Safety requirement (see catalog)		1-3
Catalog Notes							
*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 or academic advisor for the transfer requirements of the specific advanced program or school.							
Welding Technology Program Electives							
IMT-108	Rigging and Lifting	44	2	Move to Term 6			
WLD-102	Introduction to Welding	44	2				
WLD-103	Blacksmithing & Traditional Iron Working	44	2				
WLD-104	Introduction to CNC Plasma Cutting	44	2				
WLD-110	Welder Certification	88	4				
WLD-150	Welding Processes	88	4				
WLD-203	Blacksmithing & Traditional Iron Working II	44	2				
WLD-261	Welding Special Projects	22-44	1-2				
WLD-270	Certified Welding Inspector (CWI) Study	44	4	REMOVE			
TOTAL CURRENT CREDITS:			93-94	TOTAL PROPOSED CREDITS:			90-93

College Contact	AUWD	Telephone No.	3046
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<u>APPROVED</u> Recognition Award	Current Credits
	6-digit CIP	7 th digit	8 th digit		
AAS Title: Welding 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 Welding Technology CC.WELDINGTECH	48.0508			<input checked="" type="checkbox"/> CC1R Related Certificate (45-60 credits)	50

**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> 45-46
<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:		

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 22-23</i>				<i>PROPOSED CURRICULUM 23-24</i>			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
First Term							
MFG-107	Industrial Safety & First Aid	33	3	REMOVE			
MTH-050*	Technical Mathematics I	44	4				
WLD-100	Welder's Print Reading I	33	3				
WLD-111 Or WLD-111A And WLD-111B	Shielded Metal Arc Welding (Stick)	176	8				
Second Term							
MFG-103	Machining for Fabrication & Maintenance	66	3				
MFG-109	Computer Literacy for Technicians	33	3	REMOVE			
WLD-113 Or WLD-113A And WLD-113B	Gas Metal Arc Welding/Flux Core Arc Welding (Wirefeed)	176	8				
WR-101*	Communication Skills: Occupational Writing	33	3	WR-101*	Workplace Writing	44	4
Third Term							
WLD-110	Welder Certification	88	4				
WLD-115 Or WLD-115A And WLD-115B	Gas Tungsten Arc Welding (GTAW)	176	8				
--	Human Relations requirement (see catalog)		3	--	Human Relations requirement (Recommended: COMM-100Z)		3-4
<p>*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 or academic advisor for the transfer requirements of the specific advanced program or school.</p>							
TOTAL CURRENT CREDITS:			50	TOTAL PROPOSED CREDITS:			45-46
College Contact	AUWD			Telephone No.			
E-Mail Address				Fax No.			
Chief Academic Officer or PTE Dean Signature					Date		

March 3, 2023

Course	Current Hours/Credits	Proposed Hours/Credits
ECE-150	33 LECT/3 Credits	44 LECT/4 Credits

Clackamas Community College
Online Course/Outline Submission System

Show changes since last approval in red

Section #1 General Course Information

Department: Education, Human Services & Criminal Justice

Submitter

First Name: Dawn
Last Name: Hendricks
Phone: 6158
Email: dawn.hendricks

Course Prefix and Number: ECE - 150

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: Introduction to Early Childhood Education & Family Studies

Course Description:

Focuses on the history of early childhood education and the prominent theorists that have significantly contributed to the field. The types of programs that serve young children, birth-age 8, and their families will be examined. State and national standards in early childhood education and family studies will be explored.

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): Early Childhood Education & Family Studies AAS

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?

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 Only

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.

Yes

Course Number: ECE-150ES Title: Introducción a la educación infantil y los estudio

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 current theories and ongoing research in early care and education;
2. describe the role of play in early childhood programs;
3. compare early learning program models;
4. explain the importance of developing culturally responsive partnerships with families;
5. identify appropriate guidance techniques used in early care and education settings;
6. describe the observation, assessment and teaching cycle and used to plan curriculum for all young children;
7. apply the professional code of ethics for early care and education to resolve dilemmas;
8. describe major historical figures, advocates and events, shaping today's early childhood education;
9. summarize the intent of the National Association for the Education of Young Children (NAEYC) teacher standards and competencies, Oregon's Early Learning and Kindergarten Readiness Guidelines and the Common Core State Standards;
10. apply to the Central Background Registry (CBR) at oregonearlylearning.com.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. An Overview of the Field of Early Childhood Education
2. Professionalism in Early Childhood Education
3. Theories and Program Approaches
4. State and Federal standards for early learning
5. Brain Development
6. Child Development and Developmentally Appropriate Practices
7. Diversity and Equity in the Field of Early Childhood Education
8. Observation and Assessment
9. The Value of Play
10. Early Learning Environments
11. Family Connection
12. Beyond Behaviors

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:

Next available term after approval

:



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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
	6-digit CIP	7 th digit	8 th digit		
AAS Title: Early Childhood Education & Family Studies AAS.EARLYCHILDFAM	19.0708			<input checked="" type="checkbox"/> AAS (90-108 credits)	90-92
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Related Certificates: Early Childhood Education & Family Studies Com-Certificate				<input type="checkbox"/> Certificate of Completion	

LAST AMENDMENT APPROVED ON 1/20/23

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		<i>Proposed Total Credits:</i> 90
<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 22-23</i>				<i>PROPOSED CURRICULUM 23-24</i>			
Course	Title	Hours	Credits	Course	Course Title	Hours	Credits
Early Childhood Education & Family Studies Associate of Applied Science Degree: 1 st Year							
Fall Term							
ECE-150	Introduction to Early Childhood Education & Family Studies	33	3	ECE-150	Introduction to Early Childhood Education & Family Studies	44	4
ED-216	Foundations of Teaching & Education	44	4				
MTH-050 Or MTH-065 Or MTH-098	Technical Mathematics I or Algebra II or College Math Foundations	44	4	Move to Winter Term			
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33-44	3-4	Remove WR-101			
				ECE-235	Safety, Health and Nutrition	33	3
				FYE-101	First Year Experience Level I	22	2
Winter Term							
ECE-121	Observation and Guidance I in ECE Settings	44	4				
ECE-154	Language & Literacy Development in Young Children	44	4				
ECE-235	Safety, Health and Nutrition	33	3	Move to Fall Term			
HDF-225	Prenatal, Infant & Toddler Development	33	3				
				MTH-050 Or MTH-065 Or MTH-098	Technical Mathematics I or Algebra II or College Math Foundations	44	4
Spring Term							
ECE-179	The Professional in Early Childhood Education and Family Studies	44	4	Move to Year 2, Fall Term			
ECE-240	Environments and Curriculum Planning	44	4				
ECE-280	Early Childhood Education/CWE	108	3				
ED-258	Multicultural Education	33	3				

HDF-247	Preschool Through Adolescent Child Development	33	3				
Early Education & Family Studies Associate of Applied Science Degree: 2 nd Year							
Fall Term							
ECE-221	Observation & Guidance II in ECE Settings	44	4				
ECE-241	Environments and Curriculum Planning: Infants and Toddlers	33	3				
HDF-260	Understanding Child Abuse and Neglect	44	4	REMOVE			
--	PE/Health/Safety/First Aid requirement		2-3	REMOVE			
				ECE-179	The Professional in Early Childhood Education and Family Studies	44	4
				ED-114	Instructional Strategies for Math	33	3
Winter Term							
ECE-291	Practicum II	120	4				
ED-169	Overview of Students with Special Needs	33	3				
ED-254	Instructional Strategies for Dual Language Learners	33	3				
--	Early Childhood Education program electives		5	--	Early Childhood Education program electives		4
Spring Term							
ECE-239	Trauma-Informed Practices in Early Care and Education	33	3				
ECE-292	Practicum III	120	4				
ED-114	Instructional Strategies for Math	33	3	Move to 2 nd year, Fall Term			
ED-246	School, Family & Community Relations	44	4				
HDF-140	Contemporary American Families	33	3				
				HPE-295	Health & Fitness for Life	60	3
Early Childhood Education & Family Studies Program Electives							
BA-101	Introduction to Business	44	4				
COMM-100Z	Introduction to Communication	44	4	REMOVE			
COMM-140	Introduction to Intercultural Communication	44	4				
ECE-139	Program Management in ECE	11	1	REMOVE			
ECE-142	Media, Technology and the Influences on Child Development	11	1	REMOVE			

ECE-143	Kindergarten Readiness	11	1				
ED-150	Creative Activities for Children	33	3				
ED-229	Learning & Development	33	3				
FYE-101	First Year Experience Level I	22	2				
HS-154	Community Resources	33	3				
HST-138	History of Love, Marriage and the Family in Western Civilization	44	4				
PSY-101	Human Relations	33	3				
PSY-205	Introduction to Psychology: Part 2	44	4				
PSY-215	Introduction to Developmental Psychology	44	4				
SOC-204	Introduction to Sociology	44	4				
SPN-101	First-Year Spanish I	44	4				
SPN-102	First-Year Spanish II	44	4				
WR-122Z	Composition II	44	4				
WS-101	Introduction to Women's Studies	44	4	REMOVE			
				BI-101	General Biology; Cellular Biology	66	4
				COMM-111Z	Public Speaking	44	4
				MTH-105Z	Math in Society	44	4
TOTAL CURRENT CREDITS:			90-92	TOTAL PROPOSED CREDITS:			90

College Contact	Dawn Hendricks	Telephone No.	6158
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature	Armetta Burney via email	Date	2/15/23



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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: Early Childhood Education & Family Studies 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 Early Childhood Education & Family Studies CC.ECEFS	19.0701			<input checked="" type="checkbox"/> CC1R Related Certificate (45-60 credits)	45-46

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

LAST AMENDMENT APPROVED ON 01.20.23

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> 45
<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:		

CURRICULUM AMENDMENT

<i>CURRENT CURRICULUM 22-23</i>				<i>PROPOSED CURRICULUM 23-24</i>			
Course Number	Course Title	Clock Hours	Credits	Course Number	Course Title	Clock Hours	Credits
Fall Term							
ECE-150	Introduction to Early Childhood Education & Family Studies	33	3	ECE-150	Introduction to Early Childhood Education & Family Studies	44	4
ED-216	Foundations of Teaching & Education	44	4				
MTH-050 Or MTH-065 Or MTH-098	Technical Mathematics I or Algebra II or College Math Foundations	44	4	Move to Winter Term			
WR-101 Or WR-121Z	Communication Skills: Occupational Writing or Composition I	33-44	3-4	Remove WR-101			
				ECE-235	Safety, Health and Nutrition	33	3
				FYE-101	First Year Experience Level I	22	2
Winter Term							
ECE-121	Observation and Guidance I in ECE Settings	44	4				
ECE-154	Language & Literacy Development in Young Children	44	4				
ECE-235	Safety, Health and Nutrition	33	3	Move to Fall Term			
HDF-225	Prenatal, Infant & Toddler Development	33	3				
				MTH-050 Or MTH-065 Or MTH-098	Technical Mathematics I or Algebra II or College Math Foundations	44	4
Spring Term							
ECE-179	The Professional in Early Childhood Education and Family Studies	44	4	REMOVE			
ECE-240	Environments and Curriculum Planning	44	4				
ECE-280	Early Childhood Education/CWE	108	3				
ED-258	Multicultural Education	33	3				

HDF-247	Preschool Through Adolescent Child Development	33	3				
TOTAL CURRENT CREDITS:			45-46	TOTAL PROPOSED CREDITS:			45

College Contact	Dawn Hendricks	Telephone No.	6158
E-Mail Address	dawn.hendricks@clackamas.edu	Fax No.	
Chief Academic Officer or PTE Dean Signature	Armetta Burney via email	Date	2/15/23

Accreditation Steering Committee

Elizabeth Carney and Jason Kovac