# Curriculum Committee Agenda

**January 21, 2022 (8-9:30am)**

| | Presenter | Action |
|---|---|---|
| **1. Welcome and Introductions** | **Chair** | |
| **2. Approval of Minutes** | **Chair** | Approval |
| **3. Consent Agenda**<br>a. Course Number Changes<br>b. Course Title Change<br>c. Reviewed Outlines for Approval | **Chair** | Approval |
| **4. Course and Program Approvals** | | |
| a. **APR Course Hours, Instructional Method, Credit Change**<br>a. APR-291IE, APR-292IE, APR-293IE, APR-294IE | **Shelly Tracy** | Approval/22.SU |
| b. **EMT Course Hours, Instructional Method, Credit**<br>a. EMT-109 | **Tana Sawzak** | Approval/22.SU |
| c. **Horticulture Amendments**<br>a. Organic Farming CC | **April Chastain** | Approval/22.SU |
| d. **AS Engineering, PSU Amendments**<br>a. AS, Civil Engineering, PSU<br>b. AS, Environmental Engineering, PSU<br>c. AS, Electrical Engineering, PSU<br>d. AS, Computer Engineering, PSU | **Eric Lee** | Approval/22.SU |
| e. **New Course**<br>a. CDT-240<br>b. FRP-269 | **Curriculum Office**<br>**Jeff Ennenga** | Approval/22.SP<br>Approval/22.SP |
| **5. Old Business**<br>a. | | |
| **6. New Business**<br>a. Common Course Numbering | **David Plotkin** | Informational |
| **7. Closing Comments**<br>a. | | |

# Curriculum Committee Minutes

**January 7, 2022** (8-9:30am)

**Present**: ASG (Chris Sanchez), Dustin Bare, Nora Brodnicki, Rick Carino, Elizabeth Carney, Amanda Coffey, Megan Feagles (Recorder), Sharron Furno, Sue Goff, Dawn Hendricks, Shalee Hodgson, Kerrie Hughes (Alternate Chair), Jason Kovac, Kara Leonard, Lupe Martinez, Mike Mattson, Patricia McFarland, Scot Pruyn (Chair), Lisa Reynolds, Cynthia Risan, Terrie Sanne, Charles Siegfried, Tara Sprehe, Sarah Steidl, Dru Urbassik, Andrea Vergun, Helen Wand, Jim Wentworth-Plato

**Guests:**

**Absent**: George Burgess, Jeff Ennenga, Eden Francis, Alice Lewis, Tracy Nelson, David Plotkin

1. **Welcome & Introductions**

2. **Approval of Minutes**
   a. Approval of the December 3, 2021 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. **New Courses**
      i. CDT-130
         1. Mike Mattson presented
         2. Autodesk Fusion is a newer technology that is free to students. The course is modeled after some of the other drafting courses. It will be part of several programs later on.

   *Motion to approve, approved*

5. **Old Business**
   a. **Final Reminder – Course Scheduled for Inactivation on 6/30/22**
      i. This is the third and final reminder about courses scheduled for inactivation for the 22-23 year.
      ii. These are courses that haven't been offered since 2019/SP. Including new courses that have never been offered (unless it's a recent new course)
      iii. To prevent inactivation, the course must be offered during the 21-22 year, OR JUST ASK US NOT TO INACTIVATE IT.
      iv. The list is posted under Additional Documents and is updated frequently.

6. **New Business**
   a. **Catalog Deadlines**
      i. Dru Urbassik presented
      ii. Due to changes in the system and delays with the catalog vendor, we are pushing the catalog deadlines later than usual.
      iii. Proposed deadline is the February 18th meeting. Dru will email details later.

7. **Closing Comments**
   a. The Committee expressed interest in talking about Return to Campus in future meetings.
   b. Some members were interested in recording future meetings if they aren't able to make the meeting.

*-Meeting Adjourned-*

**Next Meeting: January 21, 2022 (8-9:30am)**

Clackamas Community College

# CONSENT AGENDA

**January 21, 2022**

## 1. Course Title Change

| Course | Current Title | Proposed Title |
|---|---|---|
| HOR-130 | Plant Propagation Theory | Plant Propagation Techniques |
| | | |

## 2. Course Number Change

| Course | Title | Proposed Course Number |
|---|---|---|
| | | |
| | | |

## 3. Outlines Reviewed for Approval

| Course | Title | Implementation |
|---|---|---|
| AM-101 | Intro to Automotive Service Technology | 2022/SP |
| AM-131 | Chassis Systems | 2022/SP |
| AM-142 | Engine Performance I | 2022/SP |
| AM-223 | Alternative Fuels Transportation Technology | 2022/SP |
| AM-224 | Comfort Systems | 2022/SP |
| AM-235 | Power Transmission Systems | 2022/SP |
| AM-280 | Auto Mechanics/CWE | 2022/SP |
| BA-240 | Introduction to Financial Management | 2022/SP |
| BT-125 | Business Editing II | 2022/SP |
| CJA-212 | Criminal Investigation III | 2022/SP |
| EMT-101 | Emergency Medical Technician Part I | 2022/SP |
| FR-102 | First-Year French II | 2022/SP |
| HOR-113 | Organic Farming Practicum/Fall | 2022/SP |
| HOR-130 | Plant Propagation Techniques | 2022/SP |
| HOR-140 | Soils | 2022/SP |
| HOR-146 | Fruit & Berry Growing | 2022/SP |
| HOR-211 | Native Plant Identification | 2022/SP |
| HOR-223 | Applied Plant Science | 2022/SP |
| HOR-236 | Insect Identification | 2022/SP |
| WR-262 | Introduction to Screenwriting | 2022/SP |

# Clackamas Community College

Online Course/Outline Submission System

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**Section #1 General Course Information**

**Department:** AUWD

**Submitter**

First Name: Jay
Last Name: Leuck
Phone: 5035943052
Email: jayl@clackamas.edu

**Course Prefix and Number:** AM - 101

**# Credits:** 2

**Contact hours**

Lecture (# of hours): 24
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 24

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:** Intro to Automotive Service Technology

**Course Description:**

Introduction to Automotive Service Technology is a course that will prepare students for success in the Automotive Service Technology Program. Shop orientation and automotive industry safety training will be provided. Students can earn industry-recognized certificates. Students will be exposed to industry-recognized online service information. Students will also be introduced to tasks that align with the Auto Service Excellence Education Foundation (ASEEF) Master Automotive Service Technician (MAST) program accreditation.

**Type of Course:** Career Technical Preparatory

**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):** Automotive Service Technology

**Are there prerequisites to this course?**

## Yes

**Pre-reqs:** MTH-020 or placement in MTH-050, and WRD-080 or placement in WRD-090

**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:** AM-129, AM-130, AM-131, AM-133, AM-142, or AM-235

**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?**

✓ **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. identify tools and shop equipment;
2. identify all ASE Education Foundation required supplemental tasks;
3. complete testing requirements to earn industry-recognized safety certifications.

***This course does not include assessable General Education outcomes.***

**Major Topic Outline:**

1. Program/CCC Orientation
a. Portfolio development
b. Careers in Automotive Service Area
c. Safety, Environmental and Health Concerns
d. Tools, Shop Equipment and Measuring
e. Principles, Math and Calculations
f. Vehicle Service Information, Identification and Routine Maintenance

2. ASEEF Required Supplemental Tasks
a. Shop and Personal Safety
b. Tools and Equipment
c. Preparing Vehicle for Service
d. Preparing Vehicle for Customer
e. Work Habits and Ethics
f. Workplace Employability Skills

**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**: Spring 2022

# Clackamas Community College

Online Course/Outline Submission System

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**Section #1 General Course Information**

**Department:** AUWD

**Submitter**

First Name: Nick
Last Name: Miller
Phone: 3054
Email: nickmil

**Course Prefix and Number:** AM - 131

**# Credits:** 5

**Contact hours**

Lecture (# of hours):
Lec/lab (# of hours): 100
Lab (# of hours):
Total course hours: 100

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:** Chassis Systems

**Course Description:**

In this theory and lab course, students will learn the design, construction, service, and repair of front and rear suspension systems, wheels and tires, steering systems, and alignments. Students will service and repair these systems in the hands-on lab.

**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):** Automotive Technology AAS Degree

**Are there prerequisites to this course?**

**Yes**

**Pre-reqs:** MTH-020 or placement in MTH-050, and WRD-080 or placement in WRD-090

**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. demonstrate the fundamentals of service and repair of chassis systems;
2. service and repair wheel and tire assemblies;
3. service and repair front and rear-wheel steering systems;
4. service and repair front and rear suspension systems;
5. align front and rear suspension and steering systems;
5. install aftermarket alignment kits;
6. describe the operation and repair of four-wheel steering systems.

***This course does not include assessable General Education outcomes.***

**Major Topic Outline:**

1. fundamentals of chassis systems.
2. service and repair of front and rear suspension systems.
3. service and repair of front and rear steering systems.
4. service and repair of wheel and tire systems.
5. alignment of front and rear suspension and steering systems.
6. installation of aftermarket alignment kits.

**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**: Winter 2023

# Clackamas Community College

Online Course/Outline Submission System

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**Section #1 General Course Information**

**Department:** AUWD

**Submitter**

First Name: Jay
Last Name: Leuck
Phone: 3052
Email: jayl@clackamas.edu

**Course Prefix and Number:** AM - 142

**# Credits:** 5

**Contact hours**

Lecture (# of hours):
Lec/lab (# of hours): 100
Lab (# of hours):
Total course hours: 100

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:** Engine Performance I

**Course Description:**

This course is designed to provide students with the entry-level skills necessary to repair automobile fuel delivery and emission systems. Includes general engine diagnosis; fuel, air induction, and exhaust systems diagnosis and repair; emission control systems diagnosis and repair. Introduction to the diagnostic process, scan tools, and oscilloscopes.

**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):** Automotive Service Technology AAS Degree

**Are there prerequisites to this course?**

**Yes**

**Pre-reqs:** MTH-020 or placement in MTH-050, and WRD-080 or placement in WRD-090

**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.

**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 general engine diagnosis;
2. diagnose and repair fuel, air induction, and exhaust systems;
3. diagnose and repair emissions control systems;
4. describe the diagnostic process;
5. use scan tools and oscilloscopes to aid in diagnosis.

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***This course does not include assessable General Education outcomes.***

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**Major Topic Outline:**

1. Oscilloscopes
2. Scan Tools and Engine Performance Diagnosis
3. Gasoline
4. Fuel Pumps, Lines, and Filters
5. Fuel-Injection Components and Operation
6. Gasoline Direct-Injection Systems
7. Vehicle Emissions Standards, and Testing
8. Positive Crankcase Ventilation and Secondary Air-Injection Systems
9. Catalytic Converters

**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**: Spring 2022

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# Clackamas Community College

Online Course/Outline Submission System

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**Section #1 General Course Information**

**Department:** AUWD

**Submitter**

First Name: Rick
Last Name: Lockwood
Phone: 3053
Email: rickl

**Course Prefix and Number:** AM - 223

**# Credits:** 5

**Contact hours**

Lecture (# of hours):
Lec/lab (# of hours): 100
Lab (# of hours):
Total course hours: 100

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:** Alternative Fuels Transportation Technology

**Course Description:**

Provides students with knowledge of theory and physical description of hybrid, Electric, Fuel cell vehicles. The student will have the opportunity to acquire practical experience in the area of diagnosing and repairing alternative fuel transportation vehicles.

**Type of Course:** Career Technical Preparatory

**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):** Automotive Technology AAS Degree

**Are there prerequisites to this course?**

**Yes**

**Pre-reqs:** AM-129

**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 Only

**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. service all hybrid/Battery Electric Vehicle systems;
2. explain how AC-DC and DC-DC converters work;
3. test high voltage battery and related components;
4. remove and replace high voltage battery packs;
5. test 3 phase brushless AC/DC electric machines.

***This course does not include assessable General Education outcomes.***

**Major Topic Outline:**

1. The history of hybrids.
2. High voltage safety.
3. Basic electric principles.
4. 3 phase sensed and non sensed motor operation
5. AC-DC Inverters.
6. DC-DC converters.
7. CVT transmission.
8. Resolvers/Hall sensors
9. Interlock circuits.
10. Electric steering.
11. Braking system.
12. A/C system.
13. High voltage battery.

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

| | |
|---|---|
| 1. Increased energy efficiency | **Yes** |
| 2. Produce renewable energy | **Yes** |
| 3. Prevent environmental degradation | **Yes** |
| 4. Clean up natural environment | **Yes** |
| 5. Supports green services | **Yes** |

Percent of course: 80%

**First term to be offered:**

**Specify term**: Spring 2022

# Clackamas Community College

Online Course/Outline Submission System

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**Section #1 General Course Information**

**Department:** AUWD

**Submitter**

First Name: Rick
Last Name: Lockwood
Phone: 3053
Email: rickl

**Course Prefix and Number:** AM - 224

**# Credits:** 5

**Contact hours**

Lecture (# of hours):
Lec/lab (# of hours): 100
Lab (# of hours):
Total course hours: 100

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:** Comfort Systems

**Course Description:**

In this course, students will learn design, construction, testing, maintenance, and repair of automotive heating and air conditioning systems. Prepares a student to take the Section 609 Environmental Protection Agency certification test.

**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):** Automotive Service Technology AAS Degree

**Are there prerequisites to this course?**

## Yes

**Pre-reqs:** AM-129

**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 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.

**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. diagnose and repair heating and air conditioning systems;
2. demonstrate the proper recovery, evacuation, and recharging of modern-day mobile air-conditioning systems;
3. identity and document the function of each major component in the heating and air conditioning system;
4. explain the operation of heated seats and heated steering wheels;
5. successfully obtain section 609 certification to handle modern refrigerant.

***This course does not include assessable General Education outcomes.***

**Major Topic Outline:**

1. Theory of operation of the A/C and heating system
2. Basic components of the heating and A/C system
3. Heating and A/C System controls
4. Specific types of A/C systems
5. A/C System servicing
6. A/C system diagnosis
7. A/C Compressor types
8. Engine cooling system
10. Automatic temperature control systems
11. Heated seats/steering wheel controls and operation
11. Preparing and testing for 609 refrigerant handling certification

**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 | **Yes** |
| 4. Clean up natural environment | **No** |
| 5. Supports green services | **Yes** |

Percent of course: 10%

**First term to be offered:**

**Specify term**: Fall 2022

# Clackamas Community College

Online Course/Outline Submission System

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**Section #1 General Course Information**

**Department:** AUWD

**Submitter**

First Name: Nick
Last Name: Miller
Phone: 5035943054
Email: nickmil@clackamas.edu

**Course Prefix and Number:** AM - 235

**# Credits:** 5

**Contact hours**

Lecture (# of hours):
Lec/lab (# of hours): 100
Lab (# of hours):
Total course hours: 100

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:** Power Transmission Systems

**Course Description:**

In this course students will learn the construction, operation, service and repair of clutches, manual transmission, U-joints, drive lines, final drives, overdrive, and four wheel drives.

**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):** Automotive Service Technology AAS Degree

**Are there prerequisites to this course?**

## Yes

**Pre-reqs:** MTH-020 or placement in MTH-050, and WRD-080 or placement in WRD-090

**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. diagnose and repair clutch and actuating assemblies;
2. diagnose and repair manual transmissions/trans axles;
3. diagnose and repair drive shafts and universal joints;
4. diagnose and repair differential assemblies;
5. diagnose and repair four-wheel drive systems.

***This course does not include assessable General Education outcomes.***

**Major Topic Outline:**

1. Clutch and actuating assemblies.
2. Manual transmissions/transaxles.
3. Drive shafts and universal joints.
4. Differential assemblies.
5. Four wheel drive 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**: Spring 2022

# Clackamas Community College

Online Course/Outline Submission System

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**Section #1 General Course Information**

**Department:** AUWD

**Submitter**

First Name: Jay
Last Name: Leuck
Phone: 3052
Email: jayl

**Course Prefix and Number:** AM - 280

**# Credits:** 6

**Contact hours**

Lecture (# of hours):
Lec/lab (# of hours):
Lab (# of hours): 216
Total course hours: 216

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:** Auto Mechanics/CWE

**Course Description:**

Cooperative work experience. Work-related learning experience in an auto repair shop or auto dealership. Variable Credit: 1-6 credits. Required: Student Petition.

**Type of Course:** Career Technical Preparatory

**Is this class challengeable?**

**Yes**

**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?** 6

**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 Technology AAS

**Are there prerequisites to this course?**

**No**

**Are there corequisites to this course?**

**Yes**

**Co-reqs:** CWE-281

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

**Yes**

**Recommendations:**

**Requirements:** Student Petition.

**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?**

**✓ 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. set a minimum of three measurable learning objectives related to the student's major and work experience,
2. analyze his/her interests, strengths, and weaknesses related to career goals;
3. obtain a job offering experience and training toward a career goal,
4. prepare and present a written or oral report on the measurable learning objectives,
5. demonstrate progress towards a career goal.

---

***This course does not include assessable General Education outcomes.***

---

**Major Topic Outline:**

1. Co-op information session to include enrollment & assistance with job placement based on degree orientation.
2. Learning objectives draft aligned with degree, Co-op jobsite needs and expectations and Automotive Co-op instructor's consultation.
3. Initial jobsite visit and company orientation to Co-op by Automotive Co-op instructor. Meeting with supervisor, student(s) and instructor.
4. Final evaluation. Follow-up consultation with employer.

**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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# Clackamas Community College

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**Section #1 General Course Information**

**Department:** Business & Computer Science: Business

**Submitter**

First Name: Joan
Last Name: San-Claire
Phone: 3013
Email: joan.san-claire@clackamas.edu

**Course Prefix and Number:** BA - 240

**# 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 Financial Management

**Course Description:**

In this course, you will build upon knowledge obtained from the Principles of Accounting courses to comprehend the process and practice of corporate financial management. Purchasing capital assets and undertaking projects require sound decision-making and management of risk, as well as a solid understanding of the time value of money. In this course, you will delve into discounted cash flow analysis for stocks and bonds, capital budgeting, the cost of capital, and effective corporate financial planning. Both theoretical and practical, our focus is on decisions that are made by the corporate financial manager.

**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?**

## 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): AAS Accounting

**Are there prerequisites to this course?**

## Yes

## Pre-reqs: BA-211

## 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?**

## 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. explain the goals of corporate finance;
2. apply appropriate techniques to evaluate and manage investment decisions involving interest rates, bonds, and stocks;
3. evaluate the acquisition of assets and the undertaking of projects using time value of money principles;
4. demonstrate an understanding of the trade-off between risk and return, financial markets, and the cost of capital;
5. integrate financial theory to plan appropriate long-term financing structure and policy.

***This course does not include assessable General Education outcomes.***

**Major Topic Outline:**

1. Introduction to Corporate Finance, Financial Statements, Taxes, and Cash Flow
2. Introduction to Time Value of Money and Discounted Cash Flows
3. Interest Rates and Bond Valuation
4. Stock Valuation
5. Net Present Value (NPV) and Other Investment Criteria
6. Capital Investment Decisions
7. Project Evaluation
8. Capital Market History, Return, Risk, and the Security Market Line (SML)
9. Cost of Capital, Financial Leverage, and Capital Structure Policy
10. Risk, Returns, and Diversification

**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)**
**✓ OIT (Oregon Institute of Technology)**
**✓ OSU (Oregon State University)**
**✓ OSU-Cascade**
**✓ PSU (Portland State University)**
**✓ SOU (Southern Oregon University)**
**✓ UO (University of Oregon)**
**✓ WOU (Western Oregon University)**

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

BA-240 at OSU (direct articulation/transfer
Business elective for other schools

**How does it transfer? (Check all that apply)**

**✓ required or support for major**

**✓ general elective**
:

**First term to be offered:**

**Specify term**: Spring 2021

# Clackamas Community College

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**Section #1 General Course Information**

**Department:** Business & Computer Science: Business

**Submitter**

First Name: Beverly
Last Name: Forney
Phone: 3115
Email: Beverlyf

**Course Prefix and Number:** BT - 125

**# 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:** Business Editing II

**Course Description:**

This course continues the study of professional editing and writing in a business office. The continued and correct use of acceptable spelling, grammar, and formatting of business documents will be covered in-depth, with increased practice in writing and editing skills in the composition of letters, memos, emails, reports, and presentations. Functional business reports will be covered in relation to written reports and proposals, as well as customer service phone etiquette and the creation of professional presentations for the workplace.

**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): Admin Professional AAS, certificate

**Are there prerequisites to this course?**

## Yes

**Pre-reqs:** BT-124 with a C or better

## 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?**

## Yes

**Area:** Communication

**GRADING METHOD:**

A-F or Pass/No Pass

**Audit: Yes**

**When do you plan to offer this course?**

✓ **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. explain the importance of editing within the written business communication process;
2. continue to apply the business editing, proofreading, and revision process in order to identify and correct errors on written business documents;
3. continue to demonstrate the use of proper sentence structure and word choice as it pertains to a grammatically correct sentence and document;
4. continue to evaluate personal samples of written business communication in order to check for understanding of the writing and proofreading process;
5. continue to evaluate business communication channels (e.g. memos, emails, text messages, block style business letters, personal business letters, reports) in order to choose the best channel based on the reason for the communication;
6. demonstrate proper formatting of various business communication based on the communication channel (e.g. memos, emails, block style business letters, personal business letters, reports);
7. demonstrate proper formatting and writing of business reports and proposals for internal and external customers.

---

***This course does not include assessable General Education outcomes.***

---

**Major Topic Outline:**

1. The importance of proofreading and the proofreading process;
2. correct word choice when composing business documents;
3. incorporating sentence variety when composing business documents;
4. effective and professional business writing in the production of letters, emails, memos, reports, and presentations;
5. writing of reports and proposals for internal use within an organization;
6. writing of reports and proposals for external customers of an organization.

**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:** Education, Human Services & Criminal Justice

**Submitter**

First Name: Sharron
Last Name: Furno
Phone: 6224
Email: sharron.furno

**Course Prefix and Number:** CJA - 212

**# 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:** Criminal Investigation III

**Course Description:**

Continues the study and application of investigative techniques acquired in CJA-210 and CJA-211. Includes hands-on application of investigative processes from a practical aspect, including search warrant writing, fingerprinting, evidence collection, and crime scene photography, diagramming, and reconstruction.

**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):** Criminal Justice 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?**

**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. define and apply terms commonly associated with the investigative process;
2. demonstrate the practical application of different methods used for crime scene processing;
3. demonstrate forensic techniques for the proper collection of various types of physical evidence;
4. demonstrate the ability to diagram, photograph and document a mock crime scene.

---

**AA/OT/ASOT GENERAL EDUCATION OUTCOMES**

**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.

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**

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. Affidavit and search warrant writing.
2. Biological evidence interpretation and collection.
3. Fiber evidence collection.
4. Impression evidence processing and collection.
5. Questioned documents.
6. Latent print processing and collection, basic fingerprinting techniques.
7. Crime scene processing - practical application and documentation.

**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)**

✓ **PSU (Portland State University)**
✓ **SOU (Southern Oregon University)**

✓ **WOU (Western Oregon University)**

**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:** HTHS

**Submitter**

First Name: Tana
Last Name: Sawzak
Phone: 6025
Email: tanas@clackamas.edu

**Course Prefix and Number:** EMT - 101

**# Credits:** 6

**Contact hours**

Lecture (# of hours): 44
Lec/lab (# of hours): 22
Lab (# of hours): 33
Total course hours: 99

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:** Emergency Medical Technician Part I

**Course Description:**

This course develops skills and training at the basic life support (BLS) level. Includes signs and symptoms of illness and injury, initial treatment, stabilization, and transportation. Focus on: airway management, and patient assessment. Required: Student Petition.

**Type of Course:** Career Technical Preparatory

**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):** Emergency Medical Technology certificate

**Are there prerequisites to this course?**

**Yes**

**Pre-reqs:** WRD-098 or placement in WR-121, and MTH-060 with a C or better or placement in MTH-065

**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?**

**Yes**

**Recommendations:** EMT-105 and MA-110

**Requirements:** Student Petition.

**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.

**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. summarize the role and responsibility of the EMS provider, including applicable state regulatory statutes and administrative rules;
2. summarize the definition of a bloodborne pathogen and how to reduce the risk of transmission in a healthcare setting,
3. summarize applicable medical legal considerations and the importance of proper communication and documentation,
4. demonstrate proper patient lifting and moving techniques,
5. demonstrate proper airway management in both a conscious and unconscious patient utilizing positioning, suction, airway adjuncts, and supra-glottic advanced airway devices;
6. demonstrate proper supplemental and positive pressure oxygen administration in both a conscious and unconscious patient utilizing a face mask, bag-valve-mask, nasal canula, and non-rebreather mask;
7. demonstrate how to provide a complete assessment on a patient experiencing an acute medical illness or injury in an out of hospital situation,
8. summarize appropriate medical care to stabilize a patient experiencing an acute respiratory, cardiac, or altered mental status condition;
9. list the medications that fall within the EMT's national and state scope of practice and summarize their indications, contraindications, and administration procedure;
10. demonstrate how to manage a patient experiencing hypoperfusion (shock),
11. demonstrate management of a cardiac arrest patient including providing Cardo-Pulmonary Resuscitation (CPR) and use of an Automated External Defibrillator (AED).

---

***This course does not include assessable General Education outcomes.***

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**Major Topic Outline:**

1. EMS Provider role and responsibilities.
2. EMS Provider safety.
3. EMS communication and documentation.
4. Medical-Legal considerations in responding to emergencies.
5. Airway management.
6. Patient assessment and care for the medical patient.
7. Pharmacology for the EMT.
8. Cardiac arrest 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%

**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:** World Languages

**Submitter**

First Name: Ernesto
Last Name: Hernandez
Phone: 3710
Email: ernesto.hernandez

**Course Prefix and Number:** FR - 102

**# 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:** First-Year French II

**Course Description:**

Second term of a three-term foundational, multimedia course in beginning French designed to give students basic communicative proficiency in the target language. Students will practice all four skills: listening, speaking, reading, and writing. Special attention will be paid to pronunciation, essential grammar structures, and attendant cultural elements. Student learning is assessed through a variety of guided exercises and assignments, interactive activities, homework, tests and quizzes, and other class projects and participation.

**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?**

## No

**Are there prerequisites to this course?**

## Yes

**Pre-reqs:** FR-101

## 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. recognize meaning and correctly use common regular –IR and –RE verbs [finir, attendre etc.] and essential irregular verbs [e.g. aller, faire, pouvoir] with correct subject pronouns in oral and written expression, in addition to continued work with regular –ER verbs;
2. describe, discuss, and answer questions about school and daily activities as presented in course materials using correct grammar and vocabulary in oral and written expression;
3. recognize and use cardinal numbers 0-1000 and use of simple time expressions for personal schedules[à une/deux/trois heure(s), etc.];
4. recognize and use possessives [mon, ma, mes, etc.] and prepositions of place with correct grammar and vocabulary from course materials in oral and written expression;
5. recognize and make descriptions and comparisons of people, places, objects, and situations using correct grammar and vocabulary in oral and written expression;
6. give simple descriptions and opinions about selected social and cultural topics in the target language in oral and written expression;

***This course does not include assessable General Education outcomes.***

**Major Topic Outline:**

1. Academic, leisure, and routine activities
2. Description and comparison of family, friends, strangers, and/or famous people
3. Days, seasons, months of the year, weather
4. School and personal schedules
5. Holidays, birthdays, and special celebrations
6. Nationalities
7. Describing, comparing, and providing information for people, places, and things

**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)**

✓ **OSU (Oregon State University)**
✓ **PSU (Portland State University)**
✓ **SOU (Southern Oregon University)**
✓ **UO (University of Oregon)**
✓ **WOU (Western Oregon University)**

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

FR 102 (PSU,SOU,UO,)
FR 112 (OSU)
FR 102D (WOU)

**How does it transfer? (Check all that apply)**

✓ **general elective**
✓ **other (provide details)**: Required for graduation in lieu of two year's high school foreign language

**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:** Horticulture

**Submitter**

First Name: Chris
Last Name: Konieczka
Phone: 503-594-6213
Email: chrisk@clackams.edu

**Course Prefix and Number:** HOR - 113

**# Credits:** 3

**Contact hours**

Lecture (# of hours): 11
Lec/lab (# of hours): 44
Lab (# of hours):
Total course hours: 55

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:** Organic Farming Practicum/Fall

**Course Description:**

Essential organic farming practices, including seasonal activities such as crop rotation, cover cropping, four-season production strategies, soil testing, and calculating soil amendment needs. Class lecture, field trips, and lab are all included components of this course. This format has been selected to create a hands-on experience for each student in seasonal crop production.

**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):** Organic Farming 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?**

**Yes**

**Have you talked with a librarian regarding that impact?**

**No**

**Is there any other potential impact on another department?**

**No**

**Does this course belong on the Related Instruction list?**

**No**

**GRADING METHOD:**

A-F or Pass/No Pass

**Audit: Yes**

**When do you plan to offer this course?**

**✓ Fall**

**Is this course equivalent to another?**

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

**No**

**Will this course appear in the college catalog?**

**Yes**

**Will this course appear in the schedule?**

**Yes**

**Student Learning Outcomes:**

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

1.incorporate crop rotation planning into yearly crop scheduling,
2.create effective cover cropping plans based on desired outcomes,
3.understand and apply concepts of four season crop production.
4.complete a soil test
5.acalculate soil amendment needs according to soil test results

***This course does not include assessable General Education outcomes.***

**Major Topic Outline:**

Note: 11 hrs of Lecture occur in online format

1.Cover Cropping
a.Types of cover crops
b.When to seed, seeding rates
c.Recommended rotational strategies
2.Crop Rotation
a.Plant families and their characteristics
b.Fallow fields and soil health
c.Pest and disease life cycles
3.Four Season Production
a.Over-wintering structures
b.Planting times
c.Appropriate crop selections
d.Off-season marketing
e.Winter crop management practices
4.Soil Management
a. soil test
b. interpreting test results
c. calculcating amendment needs
d. applying amendments

**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 | **Yes** |
| 4. Clean up natural environment | **No** |
| 5. Supports green services | **Yes** |

Percent of course: 80%

**First term to be offered:**

**Specify term**: Fall 2022

# Clackamas Community College

Online Course/Outline Submission System

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**Section #1 General Course Information**

**Department:** Horticulture

**Submitter**

First Name: Chris
Last Name: Konieczka
Phone: 6213
Email: chrisk

**Course Prefix and Number:** HOR - 130

**# 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:** Plant Propagation Techniques

**Course Description:**

Covers plant anatomy and reproduction techniques of plants from seed, cuttings, grafting, division, and micro-propagation (tissue culture). Offers an in-depth overview of plant propagation practices.

**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): Horticulture 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

**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. list propagation materials and equipment including; media, containers, and irrigation systems;
2. identify sexual propagation practices including basic genetics and breeding concepts, seed production, treatments and horticultural seeding practices;
3. identify vegetative propagation practices including cuttings, layering, division, grafting and micropagation;
4. compare practices between propagation and potting as well as construct propagation records;
5. demonstrate the successful technique for propagating cuttings;
6. make sound decisions concerning approaches to propagation, based on knowledge, research and experimentation.

---

***This course does not include assessable General Education outcomes.***

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**Major Topic Outline:**

1. Aspects of Plant Propagation.
a. Plant physiological processes.
b. Plant anatomy.
c. Plant fertility.
d. Diseases and insect control.
2. Propagation Materials and Equipment.
a. Creating the propagation environment.
b. Evaluation of propagation media.
c. Containers, irrigation practices.
d. Sanitation.
e. Equipment.
f. Diseases and insect control.
3. Sexual Propagation Practices.
a. Basic genetics and breeding concepts.
b. Seed production and collection.
c. Seed dormancy treatments.
d. Germination environments.
e. Seedling nursery practices.
4. Asexual Propagation Practices.
a. Cutting propagation.
b. Layering.
c. Budding and grafting practices.
d. Tissue culture.
5. Practices Between Propagation and Potting.
6. Propagation Records.

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

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

Percent of course: 0%

**First term to be offered:**

**Specify term**: Fall 2022

# Clackamas Community College

Online Course/Outline Submission System

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## Section #1 General Course Information

**Department:** Horticulture

**Submitter**

First Name: Chris
Last Name: Konieczka
Phone: 6213
Email: chrisk@clackamas.edu

**Course Prefix and Number:** HOR - 140

**# 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:** Soils

**Course Description:**

Soil characteristics and management, including nutritional elements and the relationship between the soil and plant growth.

**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):** Horticulture AAS & Certificate, Landscape AAS & Certificate, Urban Ag 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: 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. identify soil properties and their significance including; texture, structure profiles, and colloids,
2. describe how to manage and reduce soil erosion and compaction,
3. apply an understanding of the benefits and problems of various soil types in relation to plant growth,
4. calculate the proper quantities of fertilizer to apply in order to meet recommendations,
5. discuss the relationships between soil particles, soil organisms and the environment.

***This course does not include assessable General Education outcomes.***

**Major Topic Outline:**

1. The Soil in Perspective.
a. Soil defined.
b. Soil testing.
c. Soil profile.
d. Soil classification.
e. Soil components including organic matter, water, and air.
2. Physical Properties of Mineral Soils.
a. Classification.
b. Soil textural classes.
c. Silicate clays.
d. Soil structure.
e. Tilth and tillage equipment.
3. Soil Judging.
a. Surface soil.
b. Subsoil.
c. Whole soil.
d. Management practices.
4. Supply and Availability of Plant Nutrients.
a. Factors controlling plant growth.
b. The essential elements.
c. Transfer of plant elements to available forms.
d. Plant up take of essential elements.
e. Nutritional importance.
5. Soil Colloids: The Nature and Practical Significance.
a. Colloid response to essential element ions.
b. Anion relationship.
c. Cation exchange.
d. Percentage base saturation.
6. Soil Reaction: Acidity and Alkalinity.
a. pH defined.
b. Acidity vs. alkalinity and their relationship to plant growth.
c. Buffering of soils.
7. Analyzing a Soil Test.
a. Conversion of parts per million and milliequivalent to pounds per acre.
b. Calibration of equipment.
c. Fertilizer calculations.
8. Soil Organisms.
a. Macroorganisms and their relationship to plant growth.
b. Microorganisms and their relationship to plant growth.
c. Soil organism activity.

9. Organic Matter of Mineral Soils.
a. Sources of soil organic matter.
b. Effects of organic matter on soil fertility and plant growth.
c. Carbon nitrogen ratio and its significance.
10. Lime and Its Soil-Plant Relationship.
a. Liming materials.
b. Effects of lime on soil.
c. Plant crop response to liming.
d. Forms, amounts, and methods of applying lime.
11. Improving Soil's Productive Capacity.
a. Practices which destroy soil structure or productivity.
b. Practices to improve soil structure.
12. Soil Erosion and Its Control.
a. Erosion defined.
b. Types of soil erosion.
c. Erosion prevention methods and practices.

**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 | **Yes** |
| 4. Clean up natural environment | **No** |
| 5. Supports green services | **No** |

Percent of course: 15%

**First term to be offered:**

**Specify term**: Spring 2022

# Clackamas Community College

Online Course/Outline Submission System

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**Section #1 General Course Information**

**Department:** Horticulture

**Submitter**

First Name: Chris
Last Name: Konieczka
Phone: 6213
Email: chrisk

**Course Prefix and Number:** HOR - 146

**# Credits:** 3

**Contact hours**

Lecture (# of hours): 22
Lec/lab (# of hours): 22
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:** Fruit & Berry Growing

**Course Description:**

Regionally appropriate fruit and berry production practices that are suitable for urban areas and small farms. Class will utilize the Home Orchard Education Center demonstration arboretum located on campus.

**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):** Horticulture AAS & Certificate, Organic Farming 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?**

## 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?**

## ✓ Summer

**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 regionally appropriate fruits and berries for production;
2. differentiate the planting, training and pruning practices effectively used for specific berry and tree fruit crops;
3. identify key pest problems and control options available for fruit and berry crops in urban areas and on small scale farms;
4. discuss seed, grafting, budding, and layering as propagation techniques used in fruit and berry crops;
5. practice appropriate fruit and berry harvest and storage practices.

---

***This course does not include assessable General Education outcomes.***

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**Major Topic Outline:**

1. Apples, plums, peaches, pears, grapes, blueberries, raspberries, cherries, marionberries, strawberries and other fruits and berries as interest develops.
2. Economics/labor needs.
3. Market outlets.
4. Pest management.
5. Pruning.
6. Variety selection.
7. Yield.

**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 | **Yes** |
| 4. Clean up natural environment | **No** |
| 5. Supports green services | **No** |

Percent of course: 10%

**First term to be offered:**

**Specify term**: Summer 2022

---

# Clackamas Community College

Online Course/Outline Submission System

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**Section #1 General Course Information**

**Department:** Horticulture

**Submitter**

First Name: Jim
Last Name: Wentworth-Plato
Phone: 5035946493
Email: jimwp@clackamas.edu

**Course Prefix and Number:** HOR - 211

**# Credits:** 1

**Contact hours**

Lecture (# of hours): 10
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 10

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:** Native Plant Identification

**Course Description:**

Students will learn to identify 50 native plants within the cultural and ecological context of the Pacific Northwest bioregion.

**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):** Horticulture AAS & Certificate, Landscape 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?**

## 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?**

## ✓ Summer

**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 key leaf, bud and fruit morphological features used to identify plants;
2. identify 50 plants native to our region by botanical and common names;
3. describe the cultural requirements for these 50 plants;
4. demonstrate the proper use of dichotomous keys for plant identification;
5. analyze plants of interest, using commonly available resources.

***This course does not include assessable General Education outcomes.***

**Major Topic Outline:**

1.terms used to describe plants
2.dichotomous keys and their usage
3.identifying plant habitats and needs
4.identifying native plants and their families

**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 | **Yes** |
| 4. Clean up natural environment | **No** |
| 5. Supports green services | **No** |

Percent of course: 10%

**First term to be offered:**

**Specify term**: Summer 2014

# Clackamas Community College

Online Course/Outline Submission System

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**Section #1 General Course Information**

**Department:** Horticulture

**Submitter**

First Name: Chris
Last Name: Konieczka
Phone: 503-594-6213
Email: chrisk@clackamas.edu

**Course Prefix and Number:** HOR - 223

**# 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:** Applied Plant Science

**Course Description:**

An overview of the practical aspects of plant growth and development, classification systems, plant breeding and environmental factors in managing plant growth.

**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)?**

**Yes**

**Check which General Education requirement:**

**✓ Writing**

**✓ Arts and Letters**
**✓ Science & Computer Science**

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

**Yes**

**Name of degree(s) and/or certificate(s):** Horticulture AAS, Landscape AAS, Landscape AAS: Arboriculture option, Organic Farming 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?**

**Yes**

**Have you talked with a librarian regarding that impact?**

**No**

**Is there any other potential impact on another department?**

**No**

**Does this course belong on the Related Instruction list?**

**No**

**GRADING METHOD:**

A-F or Pass/No Pass

**Audit: Yes**

**When do you plan to offer this course?**

✓ **Fall**

**Is this course equivalent to another?**

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

**No**

**Will this course appear in the college catalog?**

**Yes**

**Will this course appear in the schedule?**

**Yes**

**Student Learning Outcomes:**

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

1.appropriately use terminology associated with plant anatomy, physiology and development to communicate with horticulture workers;
2.identify the major organs of a plant and understand their functions,
3.describe the influence of plant hormones on plant growth and development,
4.apply knowledge of how environmental factors influence plant growth and development in a greenhouse, nursery, landscape or farm setting.

---

**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**

S 1. Read actively, think critically, and write purposefully and capably for academic and, in some cases, professional audiences.

S 2. Locate, evaluate, and ethically utilize information to communicate effectively.

3. Demonstrate appropriate reasoning in response to complex issues.

**SP: Speech/Oral Communication Outcomes**

S 1. Engage in ethical communication processes that accomplish goals.

P 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**

S 1. Gather, comprehend, and communicate scientific and technical information in order to explore ideas, models, and solutions and generate further questions.

S 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.

S 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**

✓ **Projects**
✓ **Writing Assignments**

:

**Major Topic Outline:**

1. Plant anatomy.
2. Plant classification systems.
b. Life Cycle (annual, biennial, perennial).
3. Plant growth and development.
a. Phases of development (seed, juvenile, reproductive, senescence).
b. Plant hormones and growth regulators.
c. Photosynthesis, respiration, transpiration.
d. Photoperiod, dormancy, vernalization, tropisms.
4. Environmental factors.
a. Light.
b. Temperature.
c. Atmospheric Gases.
d. Water.
e. Nutrients.
f. Soil.
5. Pollination and genetics.
a. Hybrids.
b. Genetically modified organisms.
c. pollination and fertilization

**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 | **Yes** |
| 4. Clean up natural environment | **No** |
| 5. Supports green services | **No** |

Percent of course: 10%

**First term to be offered:**

**Specify term**: Fall 2022

---

# Clackamas Community College

Online Course/Outline Submission System

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**Section #1 General Course Information**

**Department:** Horticulture

**Submitter**

First Name: Chris
Last Name: Konieczka
Phone: 503-594-6213
Email: chrisk@clackamas.edu

**Course Prefix and Number:** HOR - 236

**# Credits:** 2

**Contact hours**

Lecture (# of hours): 20
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 20

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:** Insect Identification

**Course Description:**

Develop skills to identify common pest and insect life stages that damage or benefit plants in the landscape, farm, and greenhouse.

**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):** Horticulture AAS, Landscape AAS & 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?**

## Yes

## Have you talked with a librarian regarding that impact?

## No

**Is there any other potential impact on another department?**

## No

**Does this course belong on the Related Instruction list?**

## No

**GRADING METHOD:**

A-F or Pass/No Pass

## Audit: Yes

**When do you plan to offer this course?**

## ✓ Fall

**Is this course equivalent to another?**

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

**No**

**Will this course appear in the college catalog?**

**Yes**

**Will this course appear in the schedule?**

**Yes**

**Student Learning Outcomes:**

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

1. Identify the characteristics of 7 taxonomic classes of animal that are not insects
2. Describe the differences and similarities of 8 insect orders
3. Identify the life stages of 10 important insect families included in those orders
4. Demonstrate how to use commonly available resources to identify unknown insects and pests

---

***This course does not include assessable General Education outcomes.***

---

**Major Topic Outline:**

1. Taxonomy of common pests of horticultural crops
2. Conditions that affect population growth and decline of insects
3. Life stages of insects and pests
4. Signs and symptoms of pest damage to plants

**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 | **Yes** |
| 4. Clean up natural environment | **Yes** |
| 5. Supports green services | **Yes** |

Percent of course: 25%

**First term to be offered:**

**Specify term**: Fall 2022

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# Clackamas Community College

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**Section #1 General Course Information**

**Department:** English

**Submitter**

First Name: Sue
Last Name: Mach
Phone: 3262
Email: suema

**Course Prefix and Number:** WR - 262

**# 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 Screenwriting

**Course Description:**

Explores the fundamentals of screenplay composition through the use of various writing exercises and workshop techniques. Discussion of dramatic structure and the elements of good storytelling. 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?**

**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 Communication AAS, AS Degree in English

**Are there prerequisites to this course?**

**Yes**

**Pre-reqs:** WRD-098 or placement in 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?**

**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**

✓ **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 dramatic structure, (AL1)
2. pursue relevant ideas around which they can develop an intriguing story, (AL2)
3. examine the process of how a movie gets made,(AL1)
4. analyze the writing of others and their own writing,(AL2)
5. demonstrate an understanding of the technical aspects of creating a script, such as formatting and scene breakdowns;(AL2)
6. evaluate outlets for possible production. (AL1)

---

**AAOT/ASOT GENERAL EDUCATION OUTCOMES**

**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**

**S** 1. Read actively, think critically, and write purposefully and capably for academic and, in some cases, professional audiences.

**S** 2. Locate, evaluate, and ethically utilize information to communicate effectively.

**S** 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:**

✓ **Presentations**

✓ **Writing Assignments**
✓ **Industry Standards**

✓ **Portfolios**

✓ **Performances/Simulation**
:

**Major Topic Outline:**

1. Dramatic structure.
2. Story line.
3. Creating a script.
4. Producing a film.

**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)**

✓ **PSU (Portland State University)**

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

**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)**

**First term to be offered:**

**Next available term after approval**
:

Clackamas Community College

# Hours, Instructional Method, Credits Change

**January 21, 2022**

| Course | Current Hours/Credits | Proposed Hours/Credits |
|---|---|---|
| APR-291IE | 27 LECT/2 Credits | 30 LECT/3 Credits |
| APR-292IE | 27 LECT/2 Credits | 30 LECT/3 Credits |
| APR-293IE | 27 LECT/2 Credits | 30 LECT/3 Credits |
| APR-294IE | 27 LECT/2 Credits | 30 LECT/3 Credits |

# Clackamas Community College

Online Course/Outline Submission System

Show changes since last approval in red Print Edit Delete Back
Reject Publish

**Section #1 General Course Information**

**Department:** Apprenticeship

**Submitter**

First Name: Shelly
Last Name: Tracy
Phone: 0945
Email: shellyt

**Course Prefix and Number:** APR - 291IE

**# Credits:** 3

**Contact hours**

Lecture (# of hours): 30
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 30

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:** National Electrical Code (NEC) Exam Preparation I

**Course Description:**

This course is designed to prepare students for the electrical general journey level examinations for the States of Oregon and Washington. The course is based on tests designed to challenge the student to navigate the National Electric Code and Oregon and Washington rules and standards. Each test is designed to simulate the three-hour, 52 question general journey level tests. This course is one of four with the same design and theme which each have a unique set of tests to enhance the students' knowledge. Required: Student Petition.

**Type of Course:** Career Technical Apprenticeship

**Can this course be repeated for credit in a degree?**

**No**

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

**No**

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

## No

**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:

**Requirements:** Completion of four years of apprenticeship classes. Student Petition.

**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?**

## ✓ Not every term

**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?**

## No

**Will this course appear in the schedule?**

**No**

**Student Learning Outcomes:**

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

1. explain how to navigate the National Electric Code (NEC) NFPA 70,
2. identify where Oregon rules supersede the NEC,
3. identify where Washington rules supersede the NEC,
4. explain how to properly apply tables and charts,
5. properly identify NEC terminology and how it relates to test questions,
6. navigate with Oregon OAR and ORs,
7. navigate with Washington RCW and WAC.

---

***This course does not include assessable General Education outcomes.***

---

**Major Topic Outline:**

1. NEC Chapters.
2. NEC tables.
3. Oregon ORAR and ORS.
4. Washington WAC and RCW.
5. Wiring methods.
6. Grounding and bonding.
7. Motors and controls.
8. Places of assembly.

**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:** Apprenticeship

**Submitter**

First Name: Shelly
Last Name: Tracy
Phone: 0945
Email: shellyt

**Course Prefix and Number:** APR - 292IE

**# Credits:** 3

**Contact hours**

Lecture (# of hours): 30
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 30

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:** National Electrical Code (NEC) Exam Preparation II

**Course Description:**

This course is designed to prepare students for the electrical general journey level examinations for the States of Oregon and Washington. The course is based on tests designed to challenge the student to navigate the National Electric Code and Oregon and Washington rules and standards. Each test is designed to simulate the three-hour, 52 question general journey level tests. This course is two of four with the same design and theme which each have a unique set of tests to enhance the students' knowledge. Required: Student Petition.

**Type of Course:** Career Technical Apprenticeship

**Can this course be repeated for credit in a degree?**

**No**

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

**No**

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

## No

**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:

**Requirements:** Completion of four years of apprenticeship classes. Must be at least 18 years of age. Student Petition.

**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: No

**When do you plan to offer this course?**

## ✓ Not every term

**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?**

## No

**Will this course appear in the schedule?**

**No**

**Student Learning Outcomes:**

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

1. explain how to navigate the National Electric Code (NEC) NFPA 70,
2. identify where Oregon rules supersede the NEC,
3. identify where Washington rules supersede the NEC,
4. explain how to properly apply tables and charts,
5. properly identify NEC terminology and how it relates to test questions,
6. navigate with Oregon OAR and ORs,
7. navigate with Washington RCW and WAC.

---

***This course does not include assessable General Education outcomes.***

---

**Major Topic Outline:**

1. NEC Chapters.
2. NEC tables.
3. Oregon ORAR and ORS.
4. Washington WAC and RCW.
5. Wiring methods.
6. Grounding and bonding.
7. Motors and controls.
8. Places of assembly.

**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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# Clackamas Community College

Online Course/Outline Submission System

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**Section #1 General Course Information**

**Department:** Apprenticeship

**Submitter**

First Name: Shelly
Last Name: Tracy
Phone: 0945
Email: shellyt

**Course Prefix and Number:** APR - 293IE

**# Credits:** 3

**Contact hours**

Lecture (# of hours): 30
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 30

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:** National Electrical Code (NEC) Exam Preparation III

**Course Description:**

This course is designed to prepare students for the electrical general journey level examinations for the States of Oregon and Washington. The course is based on tests designed to challenge the student to navigate the National Electric Code and Oregon and Washington rules and standards. Each test is designed to simulate the three-hour, 52 question general journey level tests. This course is three of four with the same design and theme which each have a unique set of tests to enhance the students' knowledge. Required: Student Petition.

**Type of Course:** Career Technical Apprenticeship

**Can this course be repeated for credit in a degree?**

**No**

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

**No**

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

## No

**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:

**Requirements:** Completion of four years of apprenticeship classes. Student Petition.

**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?**

## ✓ Not every term

**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?**

## No

**Will this course appear in the schedule?**

**No**

**Student Learning Outcomes:**

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

1. explain how to navigate the National Electric Code (NEC) NFPA 70,
2. identify where Oregon rules supersede the NEC,
3. identify where Washington rules supersede the NEC,
4. explain how to properly apply tables and charts,
5. properly identify NEC terminology and how it relates to test questions,
6. navigate with Oregon OAR and ORs,
7. navigate with Washington RCW and WAC.

---

***This course does not include assessable General Education outcomes.***

---

**Major Topic Outline:**

1. NEC Chapters.
2. NEC tables.
3. Oregon ORAR and ORS.
4. Washington WAC and RCW.
5. Wiring methods.
6. Grounding and bonding.
7. Motors and controls.
8. Places of assembly.

**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:** Apprenticeship

**Submitter**

First Name: Shelly
Last Name: Tracy
Phone: 0945
Email: shellyt

**Course Prefix and Number:** APR - 294IE

**# Credits:** 3

**Contact hours**

Lecture (# of hours): 30
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 30

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:** National Electrical Code (NEC) Exam Preparation IV

**Course Description:**

This course is designed to prepare students for the electrical general journey level examinations for the States of Oregon and Washington. The course is based on tests designed to challenge the student to navigate the National Electric Code and Oregon and Washington rules and standards. Each test is designed to simulate the three-hour, 52 question general journey level tests. This course is four of four with the same design and theme which each have a unique set of tests to enhance the students' knowledge. Required: Student Petition.

**Type of Course:** Career Technical Apprenticeship

**Can this course be repeated for credit in a degree?**

**No**

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

**No**

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

## No

**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:

**Requirements:** Completion of four years of apprenticeship classes. Student Petition.

**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?**

## ✓ Not every term

**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?**

## No

**Will this course appear in the schedule?**

**No**

**Student Learning Outcomes:**

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

1. explain how to navigate the National Electric Code (NEC) NFPA 70,
2. identify where Oregon rules supersede the NEC,
3. identify where Washington rules supersede the NEC,
4. explain how to properly apply tables and charts,
5. properly identify NEC terminology and how it relates to test questions,
6. navigate with Oregon OAR and ORs,
7. navigate with Washington RCW and WAC.

---

***This course does not include assessable General Education outcomes.***

---

**Major Topic Outline:**

1. NEC Chapters.
2. NEC tables.
3. Oregon ORAR and ORS.
4. Washington WAC and RCW.
5. Wiring methods.
6. Grounding and bonding.
7. Motors and controls.
8. Places of assembly.

**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

# Hours, Instructional Method, Credits Change

**January 21, 2022**

| Course | Current Hours/Credits | Proposed Hours/Credits |
|---|---|---|
| EMT-109 | 22 LECT/2 Credits | 24 LECT/2 Credits |

# Clackamas Community College

Online Course/Outline Submission System

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## Section #1 General Course Information

**Department:** HTHS

**Submitter**

First Name: Tana
Last Name: Sawzak
Phone: 6025
Email: tanas@clackamas.edu

**Course Prefix and Number:** EMT - 109

**# Credits:** 2

**Contact hours**

Lecture (# of hours): 24
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 24

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:** Emergency Response Communication/Documentation

**Course Description:**

Covers principles of communication via verbal, written and electronic modes in the provision of EMS. Documentation of the elements of patient assessment, patient care and transport, communication systems, radio types, reports, codes and correct techniques.

**Type of Course:** Career Technical Preparatory

**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):** Emergency Medical Technology

**Are there prerequisites to this course?**

**Yes**

**Pre-reqs:** EMT-101

**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.

**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 verbal and nonverbal skills when interviewing a patient;
2. describe the strategies for developing patient rapport;
3. differentiate interview techniques used for cooperative, hostile, special needs and cross-cultural patients;
4. describe the general principles regarding the importance of EMS documentation and ways in which documents are used;
5. record pertinent information using correct medical terminology, accurate medical abbreviations and acronyms and appropriate correction techniques in a narrative format utilized by local protocol;
6. describe the function of a dispatch center and the role of dispatchers;
7. list and describe the phases of communications necessary to complete a typical EMS event/call;
8. name the important components of an EMS communication system and the functions of each;
9. describe the purpose of and perform verbal communication of patient information to the hospital via radio, telephone and person to person;
10. request on-line medical directions/orders and document on-line directions/orders;
11. describe basic phone systems, universal access numbers (e.g. 911) and enhanced systems and list differences, advantages and disadvantages of each.

***This course does not include assessable General Education outcomes.***

**Major Topic Outline:**

1. Communication.
a. Communication component of patient care.
b. Interview strategies.
c. Components of EMS radio and telephone systems.
d. State, federal and FCC regulations.
e. 911 systems.
f. Dispatch center operations.
g. Interagency communication, e.g. HEAR System, OLMC, ECC.
h. Medical control.
i. New technologies in EMS communication.
j. Professional perception/credibility.
2. Documentation.
a. Uses of EMS documentation.
b. Principles of power documentation.
c. Types of documentation: written, electronic, recording/dictation.
d. Document revision and correction.
e. Documentation of patient refusals.
f. Special considerations of a mass-casualty & documentation.
g. Professional perception/credibility.

**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**
:

# Program Amendments

**January 21, 2022**

| Program | Implementation |
|---|---|
| Organic Farming CC | 2022/SU |

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

Office of Educational Improvement & Innovation
Phone: (503) 378-3600
FAX: (503) 378-5156

# COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

**This form should be completed electronically and the boxes will expand to accommodate text.**
**Current instructions, forms, handouts and other useful resources are located at**
**http://www.ode.state.or.us/search/results/?id=231**

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

| CAREER LEARNING AREA | |
|---|---|
| ☐ Ag, Food & Natural Resource Systems | ☐ Health Services |
| ☐ Arts, Information & Communications | ☐ Human Resources |
| ☐ Business & Management | ☐ Industrial & Engineering Systems |

## PROGRAM INFORMATION

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

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

LAST AMENDMENT APPROVED ON 10.16.2020

## TYPE OF PROGRAM AMENDMENT

(Check **ALL** That Apply)

| | | | |
|---|---|---|---|
| ☐ New Program++<br>☐ Title Change for Program | **Curriculum Revision** | ✓ **Revision in Program Credits** | |
| | | *Proposed* **Total Credits:** | **52-56** |
| *Proposed* **AAS Title:** | | | |
| *Proposed* **OPTION Title:** | | | |
| *Proposed* **Certificate Title:** | | | |
| ☐ *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 21-22* [List entire curriculum as last approved] | | | | *PROPOSED CURRICULUM 22-23* [List only course(s) to be amended] | | | |
|---|---|---|---|---|---|---|---|
| **Course** | **Title** | **Hours** | **Credits** | **Course** | **Title** | **Hours** | **Credits** |
| 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** | **44-55** | **4-5** | | | | |
| -- | Organic Farming program electives | | 2 | | | | |
| Winter Term | | | | | | | |
| **BA-285 Or COMM-100** | **Human Relations in Business or Basic Speech Communication** | **33-44** | **3-4** | | | | |
| 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 | | 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-121** | **Communication Skills: Occupational Writing or English Composition** | **33-44** | **3-4** | | | | |
| Organic Farming Program Electives | | | | | | | |
| BA-101 | Introduction to Business | 44 | 4 | REMOVE | | | |
| BA-223 | Principles of Marketing | 44 | 4 | | | | |
| HOR-231 | Irrigation Design | 44 | 3 | REMOVE | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 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 | REMOVE | | | |
| HOR-250 | Herb Growing and Gardening | 20 | 1 | REMOVE | | | |
| HOR-251 | Herbal Products | 20 | 1 | REMOVE | | | |
| HOR-252 | Kitchen Herbs | 20 | 1 | REMOVE | | | |
| | | | | BA-230 | Social Media Marketing | 44 | 4 |
| **TOTAL *CURRENT* CREDITS:** | | | 53-56 | **TOTAL *PROPOSED* CREDITS:** | | | 52-56 |

| | | | |
|---|---|---|---|
| **College Contact** | | **Telephone No.** | |
| **E-Mail Address** | | **Fax No.** | |
| **Chief Academic Officer *or* PTE Dean Signature** |  | **Date** | **1/14/22** |

# Program Amendments

**January 21, 2022**

| Program | Implementation |
|---|---|
| AS, Civil Engineering, PSU | 2022/SU |
| AS, Environmental Engineering, PSU | 2022/SU |
| AS, Electrical Engineering, PSU | 2022/SU |
| AS, Computer Engineering, PSU | 2022/SU |

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

Office of Educational Improvement & Innovation
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FAX: (503) 378-5156

# COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

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

| CAREER LEARNING AREA | |
|---|---|
| ☐ Ag, Food & Natural Resource Systems | ☐ Health Services |
| ☐ Arts, Information & Communications | ☐ Human Resources |
| ☐ Business & Management | √ Industrial & Engineering Systems |

## PROGRAM INFORMATION

| *APPROVED* Program Title | *APPROVED* CIP Code (Include 7th & 8th digits used for OCCURS reporting.) | | | *APPROVED* Recognition Award | Current Credits |
|---|---|---|---|---|---|
| | *6-digit CIP* | *7th digit* | *8th digit* | | |
| **AS Area of Emphasis Title: Engineering – Civil** AS.PSUCIVILENGR | | | | Associate of Applied Science Area of Emphasis | 95-100 |
| **Partnering Institution Name Portland State University** | | | | | |

**Last amendment approved on 05.01.2020**

## TYPE OF PROGRAM AMENDMENT

(Check **ALL** That Apply)

| | | | |
|---|---|---|---|
| ☐ New Agreement | ☐ Curriculum Revision | ☐ Revision in Program Credits | |
| | | *Proposed* Total Credits: | 95-96 |
| ☐ *SUSPENSION* of Program | *Reason for Suspension:* | | |
| Suspension Effective Date: | | | |

# CURRICULUM AMENDMENT

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

| ***CURRENT CURRICULUM 21-22*** [List entire curriculum as last approved] | | | | ***PROPOSED CURRICULUM 22-23*** [List only course(s) to be amended] | | | |
|---|---|---|---|---|---|---|---|
| **Course** | **Title** | **Hours** | **Credits** | **Course** | **Title** | **Hours** | **Credits** |
| **Program Requirements – First Year** | | | | | | | |
| **Fall Term** | | | | | | | |
| CH-221 | General Chemistry | 77 | 5 | | | | |
| ENGR-111 | Introduction to Engineering | 33 | 3 | | | | |
| MTH-251 | Calculus I | 55 | 5 | | | | |
| WR-121 | English Composition | 44 | 4 | | | | |
| **Winter Term** | | | | | | | |
| BI-204* | Elementary Microbiology | 66 | 4 | Remove | | | |
| CH-222 | General Chemistry | 77 | 5 | | | | |
| ENGR-112 | Engineering Programming | 33 | 3 | | | | |
| MTH-252 | Calculus II | 55 | 5 | | | | |
| **Spring Term** | | | | | | | |
| COMM-111 | Public Speaking | 44 | 4 | | | | |
| MTH-254 | Vector Calculus | 55 | 5 | | | | |
| WR-227 | Technical Report Writing | 44 | 4 | | | | |
| -- | Arts & Letters elective | | 4 | | | | |
| **Program Requirements – Second Year** | | | | | | | |
| **Fall Term** | | | | | | | |
| ENGR-211 | Statics | 44 | 4 | | | | |
| GIS-201 | Introduction to Geographic Information Systems | 66 | 3 | | | | |
| PH-211 | General Physics with Calculus | 70 | 5 | | | | |
| -- | Social Science elective | | 4 | | | | |
| **Winter Term** | | | | | | | |
| CDT-103 | Computer-Aided Drafting I | 66 | 3 | | | | |
| ENGR-212 | Dynamics | 44 | 4 | | | | |
| MTH-256 | Differential Equations | 44 | 4 | | | | |
| PH-212 | General Physics with Calculus | 70 | 5 | | | | |
| **Spring Term** | | | | | | | |
| ENGR-213 | Strength of Materials | 44 | 4 | | | | |
| MTH-261 | Linear Algebra | 44 | 4 | | | | |
| PH-213 | General Physics with Calculus | 70 | 5 | | | | |
| -- | Arts & Letters or Social Science elective | | 3-4 | | | | |
| **Catalog Note:** | | | | | | | |
| *Environmental Track only | | | | **Delete** | | | |
| **Arts & Letters Electives** | | | | | | | |
| All courses in **ASL, COMM, ENG, FR, GER, HUM, PHL, SPN, WR**. Note that native speakers should only take advanced (300 level or above) foreign language courses. Non-performance based courses in art, journalism, music, and theater also meet this requirement.<br>The accepted courses at CCC are:<br>**ART**-101, 205, 206;<br>**J**-211;<br>**MUS**-105, 141, 205, 206, 230;<br>**TA**-101, 102; | | | | | | | |
| **Social Science Electives** | | | | | | | |
| All courses in **ANT, EC, GEO, HST, PS, PSY, SOC, SSC,** and **WS.** | | | | | | | |
| **Recommended:** | | | | | | | |
| Civil Engineers should take Plane Surveying (CE-211/CS-212) at PSU before beginning their junior year at PSU. The course is offered in the | | | | Take Plane Surveying (CE-211/CS-212) at PSU before beginning their junior year at PSU. The course is offered in the spring and | | | |

| | | | | | |
|---|---|---|---|---|---|
| spring and summer terms at PSU. It is also recommended that a civil/environmental engineering student complete one additional Arts & Letters or Social Science elective. | | | summer terms at PSU. Complete one additional Arts & Letters or Social Science elective. | | |
| **TOTAL *CURRENT* CREDITS:** | 95-100 | | **TOTAL *PROPOSED* CREDITS:** | | 95-96 |
| **College Contact** | Eric Lee | | **Telephone No.** | 6163 | |
| **E-Mail Address** | | | **Fax No.** | | |
| **Chief Academic Officer *or* CTE Dean Signature** |  | | **Date** | **1/7/22** | |

**Oregon Department of Community Colleges and Workforce Development**
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Office of Educational Improvement & Innovation
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FAX: (503) 378-5156

# COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

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

| CAREER LEARNING AREA | |
|---|---|
| ☐ Ag, Food & Natural Resource Systems | ☐ Health Services |
| ☐ Arts, Information & Communications | ☐ Human Resources |
| ☐ Business & Management | √ Industrial & Engineering Systems |

## PROGRAM INFORMATION

| *APPROVED* Program Title | *APPROVED* CIP Code (Include 7th & 8th digits used for OCCURS reporting.) 6-digit CIP | 7th digit | 8th digit | *APPROVED* Recognition Award | Current Credits |
|---|---|---|---|---|---|
| **AS Area of Emphasis Title: Engineering –Environmental** AS.PSUENVIRENGR | | | | Associate of Applied Science Area of Emphasis | 95-100 |
| **Partnering Institution Name Portland State University** | | | | | |

**Last amendment approved on 05.01.2020**

## TYPE OF PROGRAM AMENDMENT

(Check **ALL** That Apply)

| | | | |
|---|---|---|---|
| ☐ New Agreement | ☐ Curriculum Revision | ☐ Revision in Program Credits | |
| | | *Proposed* Total Credits: | 99-100 |
| ☐ *SUSPENSION* of Program | *Reason for Suspension:* | | |
| Suspension Effective Date: | | | |

# CURRICULUM AMENDMENT

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

| ***CURRENT CURRICULUM 21-22*** [List entire curriculum as last approved] | | | | ***PROPOSED CURRICULUM 22-23*** [List only course(s) to be amended] | | | |
|---|---|---|---|---|---|---|---|
| **Course** | **Title** | **Hours** | **Credits** | **Course** | **Title** | **Hours** | **Credits** |
| **Program Requirements – First Year** | | | | | | | |
| **Fall Term** | | | | | | | |
| CH-221 | General Chemistry | 77 | 5 | | | | |
| ENGR-111 | Introduction to Engineering | 33 | 3 | | | | |
| MTH-251 | Calculus I | 55 | 5 | | | | |
| WR-121 | English Composition | 44 | 4 | | | | |
| **Winter Term** | | | | | | | |
| BI-204* | Elementary Microbiology | 66 | 4 | BI-204 | Elementary Microbiology | 66 | 4 |
| CH-222 | General Chemistry | 77 | 5 | | | | |
| ENGR-112 | Engineering Programming | 33 | 3 | | | | |
| MTH-252 | Calculus II | 55 | 5 | | | | |
| **Spring Term** | | | | | | | |
| COMM-111 | Public Speaking | 44 | 4 | | | | |
| MTH-254 | Vector Calculus | 55 | 5 | | | | |
| WR-227 | Technical Report Writing | 44 | 4 | | | | |
| -- | Arts & Letters elective | | 4 | | | | |
| **Program Requirements – Second Year** | | | | | | | |
| **Fall Term** | | | | | | | |
| ENGR-211 | Statics | 44 | 4 | | | | |
| GIS-201 | Introduction to Geographic Information Systems | 66 | 3 | | | | |
| PH-211 | General Physics with Calculus | 77 | 5 | | | | |
| -- | Social Science elective | | 4 | | | | |
| **Winter Term** | | | | | | | |
| CDT-103 | Computer-Aided Drafting I | 66 | 3 | | | | |
| ENGR-212 | Dynamics | 44 | 4 | | | | |
| MTH-256 | Differential Equations | 44 | 4 | | | | |
| PH-212 | General Physics with Calculus | 77 | 5 | | | | |
| **Spring Term** | | | | | | | |
| ENGR-213 | Strength of Materials | 44 | 4 | | | | |
| MTH-261 | Linear Algebra | 44 | 4 | | | | |
| PH-213 | General Physics with Calculus | 77 | 5 | | | | |
| -- | Arts & Letters or Social Science elective | | 3-4 | | | | |
| **Catalog Notes** | | | | | | | |
| *Environmental Track only | | | | delete | | | |
| **Arts & Letters Electives** | | | | | | | |
| All courses in **ASL, COMM, ENG, FR, GER, HUM, PHL, SPN, WR**. Note that native speakers should only take advanced (300 level or above) foreign language courses. Non-performance based courses in art, journalism, music, and theater also meet this requirement.<br>The accepted courses at CCC are:<br>**ART**-101, 205, 206;<br>**J**-211;<br>**MUS**-105, 141, 205, 206, 230;<br>**TA**-101, 102; | | | | | | | |
| **Social Science Electives** | | | | | | | |
| All courses in **ANT, EC, GEO, HST, PS, PSY, SOC, SSC,** and **WS.** | | | | | | | |
| **Recommended:** | | | | | | | |
| Recommended: Civil Engineers should take Plane Surveying (CE-211/CS-212) at PSU before beginning their junior year at PSU. The course is | | | | Complete one additional Arts & Letters or Social Science elective. | | | |

| | | | | | |
|---|---|---|---|---|---|
| offered in the spring and summer terms at PSU. It is also recommended that a civil/environmental engineering student complete one additional Arts & Letters or Social Science elective. | | | | | |
| **TOTAL *CURRENT* CREDITS:** | 95-100 | **TOTAL *PROPOSED* CREDITS:** | | | 99-100 |
| **College Contact** | Eric Lee | **Telephone No.** | 6163 | | |
| **E-Mail Address** | | **Fax No.** | | | |
| **Chief Academic Officer *or* CTE Dean Signature** |  | **Date** | **1/7/22** | | |

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# COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

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

| CAREER LEARNING AREA | |
|---|---|
| ☐ Ag, Food & Natural Resource Systems | ☐ Health Services |
| ☐ Arts, Information & Communications | ☐ Human Resources |
| ☐ Business & Management | √ Industrial & Engineering Systems |

## PROGRAM INFORMATION

| *APPROVED* Program Title | *APPROVED* CIP Code (Include 7th & 8th digits used for OCCURS reporting.) 6-digit CIP | 7th digit | 8th digit | *APPROVED* Recognition Award | Current Credits |
|---|---|---|---|---|---|
| **AS Area of Emphasis Title: Engineering – Electrical** AS.PSUELECTENGR | | | | Associate of Applied Science Area of Emphasis | 100-106 |
| **Partnering Institution Name Portland State University** | | | | | |

**Last amendment approved on 05.01.2020**

## TYPE OF PROGRAM AMENDMENT

(Check **ALL** That Apply)

| | | | |
|---|---|---|---|
| ☐ New Agreement | ☐ Curriculum Revision | ☐ Revision in Program Credits | |
| | | *Proposed* Total Credits: | 105-106 |
| ☐ *SUSPENSION* of Program | *Reason for Suspension:* | | |
| Suspension Effective Date: | | | |

# CURRICULUM AMENDMENT

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

| ***CURRENT CURRICULUM 21-22*** [List entire curriculum as last approved] | | | | ***PROPOSED CURRICULUM 22-23*** [List only course(s) to be amended] | | | |
|---|---|---|---|---|---|---|---|
| **Course** | **Title** | **Hours** | **Credits** | **Course** | **Title** | **Hours** | **Credits** |
| **Program Requirements – First Year** | | | | | | | |
| **Fall Term** | | | | | | | |
| CH-221 | General Chemistry | 77 | 5 | | | | |
| CS-161 | Computer Science I | 44 | 4 | | | | |
| ENGR-111 | Introduction to Engineering | 33 | 3 | | | | |
| MTH-251 | Calculus I | 55 | 5 | | | | |
| **Winter Term** | | | | | | | |
| CS-162 | Computer Science II | 44 | 4 | | | | |
| ENGR-112 | Engineering Programming | 33 | 3 | | | | |
| ENGR-171 | Digital Logic | 66 | 4 | | | | |
| MTH-252 | Calculus II | 55 | 5 | | | | |
| **Spring Term** | | | | | | | |
| COMM-111 | Public Speaking | 44 | 4 | | | | |
| ENGR-271 | Digital Systems | 66 | 4 | | | | |
| MTH-261 | Linear Algebra | 44 | 4 | | | | |
| WR-121 | English Composition | 44 | 4 | | | | |
| **Summer Term** | | | | | | | |
| WR-122<br>Or<br>WR-227 | English Composition<br>or<br>Technical Report Writing | 44 | 4 | | | | |
| **Program Requirements – Second Year** | | | | | | | |
| **Fall Term** | | | | | | | |
| ENGR-221 | Electrical Circuit Analysis I | 33 | 4 | | | | |
| MTH-254* | Vector Calculus | 55 | 5 | MTH-254 | Vector Calculus | 55 | 5 |
| PH-211 | General Physics with Calculus | 77 | 5 | | | | |
| -- | Arts & Letters elective | | 4 | | | | |
| **Winter Term** | | | | | | | |
| ENGR-222 | Electrical Circuit Analysis II | 66 | 4 | | | | |
| MTH-256 | Differential Equations | 44 | 4 | | | | |
| PH-212 | General Physics with Calculus | 77 | 5 | | | | |
| -- | Social Science elective | | 4 | | | | |
| **Spring Term** | | | | | | | |
| ENGR-223 | Electrical Circuit Analysis III | 66 | 4 | | | | |
| MTH-253 | Calculus III | 55 | 5 | | | | |
| PH-213 | General Physics with Calculus | 77 | 5 | | | | |
| -- | Arts & Letters or Social Science elective | | 3-4 | | | | |
| **Catalog Notes** | | | | | | | |
| *Electrical Track only | | | | Remove | | | |
| **Arts & Letters or Social Science Electives** | | | | | | | |
| **Arts & Letters** | | | | | | | |
| All courses in **ASL, COMM, ENG, FR, GER, HUM, PHL, SPN, WR**. Note that native speakers should only take advanced (300 level or above) world language courses. Non-performance based courses in art, journalism, music, and theater also meet this requirement.<br>The accepted courses at CCC are:<br>**ART**-101, 205, 206;<br>**J**-211;<br>**MUS**-105, 141, 205, 206, 230;<br>**TA**-101, 102; | | | | | | | |
| **Social Science** | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| All courses in **ANT, EC, GEO, HST, PS, PSY, SOC, SSC,** and **WS.** | | | | | |
| **TOTAL *CURRENT* CREDITS:** | 100-106 | **TOTAL *PROPOSED* CREDITS:** | | | 105-106 |
| **College Contact** | | **Telephone No.** | | | |
| **E-Mail Address** | | **Fax No.** | | | |
| **Chief Academic Officer *or* CTE Dean Signature** | | | | **Date** | **1/7/22** |

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# COMMUNITY COLLEGE ASSOCIATE OF SCIENCE AREA OF EMPHASIS AMENDMENT FORM

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

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

| CAREER LEARNING AREA | |
|---|---|
| ☐ Ag, Food & Natural Resource Systems | ☐ Health Services |
| ☐ Arts, Information & Communications | ☐ Human Resources |
| ☐ Business & Management | √ Industrial & Engineering Systems |

## PROGRAM INFORMATION

| *APPROVED* Program Title | *APPROVED* CIP Code (Include 7th & 8th digits used for OCCURS reporting.) | | | *APPROVED* Recognition Award | Current Credits |
|---|---|---|---|---|---|
| | *6-digit CIP* | *7th digit* | *8th digit* | | |
| **AS Area of Emphasis Title: Engineering – Computer** AS.PSUCOMPENGR | | | | Associate of Applied Science Area of Emphasis | 100-106 |
| **Partnering Institution Name Portland State University** | | | | | |

**Last amendment approved on 05.01.2020**

## TYPE OF PROGRAM AMENDMENT

(Check **ALL** That Apply)

| ☐ New Agreement | ☐ Curriculum Revision | ☐ Revision in Program Credits | |
|---|---|---|---|
| | | *Proposed* Total Credits: | 100-101 |
| ☐ *SUSPENSION* of Program | *Reason for Suspension:* | | |
| Suspension Effective Date: | | | |

# CURRICULUM AMENDMENT

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

| ***CURRENT CURRICULUM 21-22*** [List entire curriculum as last approved] | | | | ***PROPOSED CURRICULUM 22-23*** [List only course(s) to be amended] | | | |
|---|---|---|---|---|---|---|---|
| **Course** | **Title** | **Hours** | **Credits** | **Course** | **Title** | **Hours** | **Credits** |
| **Program Requirements – First Year** | | | | | | | |
| **Fall Term** | | | | | | | |
| CH-221 | General Chemistry | 77 | 5 | | | | |
| CS-161 | Computer Science I | 44 | 4 | | | | |
| ENGR-111 | Introduction to Engineering | 33 | 3 | | | | |
| MTH-251 | Calculus I | 55 | 5 | | | | |
| **Winter Term** | | | | | | | |
| CS-162 | Computer Science II | 44 | 4 | | | | |
| ENGR-112 | Engineering Programming | 33 | 3 | | | | |
| ENGR-171 | Digital Logic | 66 | 4 | | | | |
| MTH-252 | Calculus II | 55 | 5 | | | | |
| **Spring Term** | | | | | | | |
| COMM-111 | Public Speaking | 44 | 4 | | | | |
| ENGR-271 | Digital Systems | 66 | 4 | | | | |
| MTH-261 | Linear Algebra | 44 | 4 | | | | |
| WR-121 | English Composition | 44 | 4 | | | | |
| **Summer Term** | | | | | | | |
| WR-122<br>Or<br>WR-227 | English Composition<br>or<br>Technical Report Writing | 44 | 4 | | | | |
| **Program Requirements – Second Year** | | | | | | | |
| **Fall Term** | | | | | | | |
| ENGR-221 | Electrical Circuit Analysis I | 33 | 4 | | | | |
| MTH-254* | Vector Calculus | 55 | 5 | Remove | | | |
| PH-211 | General Physics with Calculus | 77 | 5 | | | | |
| -- | Arts & Letters elective | | 4 | | | | |
| **Winter Term** | | | | | | | |
| ENGR-222 | Electrical Circuit Analysis II | 66 | 4 | | | | |
| MTH-256 | Differential Equations | 44 | 4 | | | | |
| PH-212 | General Physics with Calculus | 77 | 5 | | | | |
| -- | Social Science elective | | 4 | | | | |
| **Spring Term** | | | | | | | |
| ENGR-223 | Electrical Circuit Analysis III | 66 | 4 | | | | |
| MTH-253 | Calculus III | 55 | 5 | | | | |
| PH-213 | General Physics with Calculus | 77 | 5 | | | | |
| -- | Arts & Letters or Social Science elective | | 3-4 | | | | |
| **Catalog Notes** | | | | | | | |
| *Electrical Track only | | | | Remove | | | |
| **Arts & Letters or Social Science Electives** | | | | | | | |
| **Arts & Letters** | | | | | | | |
| All courses in **ASL, COMM, ENG, FR, GER, HUM, PHL, SPN, WR**. Note that native speakers should only take advanced (300 level or above) world language courses. Non-performance based courses in art, journalism, music, and theater also meet this requirement.<br>The accepted courses at CCC are:<br>**ART**-101, 205, 206;<br>**J**-211;<br>**MUS**-105, 141, 205, 206, 230;<br>**TA**-101, 102; | | | | | | | |
| **Social Science** | | | | | | | |

| | | | | | |
|---|---|---|---|---|---|
| All courses in **ANT, EC, GEO, HST, PS, PSY, SOC, SSC,** and **WS.** | | | | | |
| **TOTAL *CURRENT* CREDITS:** | 100-106 | **TOTAL *PROPOSED* CREDITS:** | | | 100-101 |
| **College Contact** | | **Telephone No.** | | | |
| **E-Mail Address** | | **Fax No.** | | | |
| **Chief Academic Officer *or* CTE Dean Signature** | | | | **Date** | **1/7/22** |

Clackamas Community College

# New Courses

**January 21, 2022**

| Course Number | Title | Implementation |
|---|---|---|
| CDT-240 | Revit for Architecture | 2022/SP |
| FRP-269 | Task Force/Strike Team Leader (S-330) | 2022/SP |

# Clackamas Community College

Online Course/Outline Submission System

Print Edit Delete Back
Reject Publish

**Section #1 General Course Information**

**Department:** IDTD

**Submitter**

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

**Course Prefix and Number:** CDT - 240

**# 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:** Revit for Architecture

**Course Description:**

Introduction to the basic principles in Revit for architecture and construction. Students create floorplans using walls, doors, and windows; add furniture fixtures, curtain walls, floors, ceiling grids, and generate elevations, sections, details, and schedules directly from the model.

**Type of Course:** Career Technical Preparatory

**Reason for the new course:**

Industry need

**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?**

## No

**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?**

## ✓ Not every term

**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?**

**No**

**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 design construction documents with Revit,
2. explain the concept of Building Information Modeling (BIM),
3. utilize Revit to create basic construction elements such as walls, doors, windows, floors, and roofs,
4. create drawing sheets of their design.

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***This course does not include assessable General Education outcomes.***

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**Major Topic Outline:**

1. Building Information Modeling (BIM) and the benefits of bidirectional associativity.
2. Navigation of the Autodesk Revit interface, manage views, and identify the different types of building elements.
3. New projects: creating and modifying levels, and using column grids.
4. Create and modify different types of walls, doors, and windows.
5. Dimensions and constraints to control object positioning.
6. Curtain walls, floors, ceilings, roofs, and stairs and railings.
7. Schedules applications and control of the appearance of schedules.

**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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# Clackamas Community College

Online Course/Outline Submission System

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**Section #1 General Course Information**

**Department:** WLDF

**Submitter**

First Name: Jeff
Last Name: Ennenga
Phone: 3539
Email: jeff.ennenga

**Course Prefix and Number:** FRP - 269

**# 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:** Task Force/Strike Team Leader (S-330)

**Course Description:**

This course is designed to meet the training requirements outlined in National Incident Management System (NIMS): Wildland Fire Qualification System Guide, PMS 310-1, and the position task books developed for the positions of Task Force Leader and Strike Team Leader. Most examples and exercises in this package are specific to wildland fire suppression, although some all-hazards exercises are included.

**Type of Course:** Career Technical Supplementary

**Reason for the new course:**

Normally this class is taught as a workshop. Some students would like college credit for it.

**Can this course be repeated for credit in a degree?**

**No**

**What is the target audience/industry for this class?**

Incumbent workers in firefighting

**Are there prerequisites to this course?**

**Yes**

**Pre-reqs:** FRP-230

**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?**

**No**

**GRADING METHOD:**

A-F or Pass/No Pass

**Audit: Yes**

**When do you plan to offer this course?**

**✓ Not every term**

**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?**

**No**

**Will this course appear in the schedule?**

**No**

**Student Learning Outcomes:**

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

1. demonstrate the ability to apply the Risk Management Process found in the Incident Response Pocket Guide (IRPG), PMS 461 to various incidents;
2. identify the responsibilities of a Task Force/Strike Team Leader,
3. demonstrate the ability to apply appropriate tactics with assigned resources organized into strike teams or task forces.

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***This course does not include assessable General Education outcomes.***

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**Major Topic Outline:**

1. Pre-Incident and mobilization responsibilities.
2. Pre-engagement responsibilities and activities.
3. Tactical engagement of resources.
4. Post engagement.
5. Responsibilities of assessing risk.
6. Demobilization.
7. Military assignments.
8. All-hazards assignments.

**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 | **Yes** |
| 4. Clean up natural environment | **No** |
| 5. Supports green services | **No** |

Percent of course: 20%

**First term to be offered:**

**Next available term after approval**
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