

Present: ASG (Benjamin Melles), ASG (Kari Schumacher), Dustin Bare, Nora Brodnicki, Rick Carino, Elizabeth Carney, Amanda Coffey, Megan Feagles (Recorder), Bev Forney, 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), Cynthia Risan, Terrie Sanne, Charles Siegfried, Tara Sprehe, Sarah Steidl, Dru Urbassik, Andrea Vergun, Jim Wentworth-Plato

Guests:

Absent: George Burgess, Jeff Ennenga, Eden Francis, Alice Lewis, Tracy Nelson, David Plotkin, Lisa Reynolds, Helen Wand

1. Welcome & Introductions

2. Approval of Minutes

- a. Approval of the March 18, 2022 minutes

Motion to approve, approved

3. Consent Agenda

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

Motion to approve, approved

4. Course and Program Approvals

a. Automotive Changes

Dustin Bates presented

- i. Program Suspension: Basic Engine Technician CC

1. Program no longer needed after other automotive programs were overhauled last year

Motion to approve, approved

- ii. Course Inactivations: AM-100, 121, 122, 175

1. Courses no longer needed after automotive program changes last year.

Motion to approve, approved

b. Educational Focus Area (EFA) Changes

Megan Feagles presented

- i. Industrial Technology & Automotive

1. Removing AM-100 since it will be inactive starting 2022

- ii. Health Professions

1. Requiring all courses to be passed with a C or better since all the Health Sciences programs have a minimum grade requirement.

c. Program Amendment: AAT English Literature

- i. Amanda Coffey presented

- ii. Changes are a result of a statewide meeting about the Major Transfer Map (MTM) for the AAT English Literature

- iii. Changing ENG-201 or ENG-202 to any 200-Level English course

Motion to approve, approved

d. New Course – ES-101

- i. Lupe Martinez presented

1. Introduction to Ethnic Studies

2. There was discussion about SLO4 and the use of the phrasing “traditional perspectives”

3. Correction to SLO1. Should be “4 largest ethnic groups” not “5”.

- a. *MCF updated outline and reuploaded agenda packet 4/1/22*

4. 2 more Ethnic Studies courses upcoming, with the end goal to have courses ready to build an AAT when an Ethnic Studies Transfer Map is developed.

5. ASG provided a student perspective and questioned how the Diversity, Equity, and Inclusion (DEI) Committee was involved. Scot will follow up with DEI’s involvement in the course review process.

Motion to approve, approved

5. Old Business

a.

6. New Business

a. Review Membership

i. Scot Pruyn presented

1. Deans are responsible for filling vacancies in their area.
2. Sharron Furno is on sabbatical next year

b. Nominations for Chair/Alternate Chair

i. Scot Pruyn presented

1. Kerrie Hughes accepted a nomination for Chair.
 - a. Committee approved Kerrie Hughes for Chair (2022/FA thru 2024/SP)
2. Taking volunteers for Alternate Chair at the next meeting.

7. Closing Comments

a.

-Meeting Adjourned-

Next Meeting: April 15, 2022 (8-9:30am)

April 15, 2022

1. Course Title Change

Course	Current Title	Proposed Title
CS-151	Networking I	Networking 1
CS-152	Networking II	Networking 2
ESR-171	Environmental Science	Introduction to Environmental Science
ESR-172	Environmental Science	Introduction to Sustainability
ESR-173	Environmental Science	Introduction to Climate Change

2. Course Number Change

Course	Title	Proposed Course Number

3. Outlines Reviewed for Approval

Course	Title	Implementation
BA-249	Retailing	2022/SU
CS-151	Networking 1	2022/SU
CS-152	Networking 2	2022/SU
ESR-171	Introduction to Environmental Science	2022/SU
ESR-172	Introduction to Sustainability	2022/SU
ESR-173	Introduction to Climate Change	2022/SU
GEO-208	Geography of the United States & Canada	2022/SU
HOR-246	Organic Farming and Gardening	2022/SU

Clackamas Community College
Online Course/Outline Submission System

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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: BA - 249

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: Retailing

Course Description:

Provides an understanding of the types of retail businesses, strategies, operations, formats and environments through which retailing is carried out, including a multi-disciplinary approach to understand the structure of effective retail management.

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): Business AAS & Certificates

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

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

Yes

Recommendations: WRD-090 or placement in WRD-098

Requirements:

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

No

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F or Pass/No Pass

Audit: Yes

When do you plan to offer this course?

✓ 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?

Yes

Will this course appear in the schedule?

Yes

Student Learning Outcomes:

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

1. compare and contrast traditional retailing to multi-channel, high-tech models and category specialists;
2. Develop a retail competitive analysis;
3. Develop a retail strategy for different customer profiles;
4. Utilize financial statements in making retail decisions;
5. Define and discuss retail distribution and risk management;
6. Explain merchandising decisions and strategies related to store layout, presentation, inventory control, and supply chain management;
7. Analyze retail websites for effectiveness and customer satisfaction.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Introduction to Retailing
2. Customers, Customer Value, and Retailing Technologies
3. Strategic Planning of Operations and Profitability in Retailing
4. The Retail Environment: A Situational and Competitive Analysis
5. Evaluation and Identification of Retail Customers
6. Research and Retail Information Systems
7. Web, non-store based, and other forms of non-traditional retailing, which includes the use of, and maintenance of a customer database
8. Selecting the appropriate market and location
9. Operations management: Financial Decisions
10. Retail Pricing
11. Retail Customer Service

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)

general elective

:

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: Business & Computer Science: Computer Science

Submitter

First Name: Rick
Last Name: Carino
Phone: 3167
Email: rcarino

Course Prefix and Number: CS - 151

Credits: 4

Contact hours

Lecture (# of hours): 22
Lec/lab (# of hours): 44
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: Networking 1

Course Description:

This course introduces students to networking architectures, models, protocols, and components. These components facilitate the connection of users, devices, applications, and data through the internet and across modern computer networks. This course, along with CS-152 and CS-153, covers the topics of the Cisco CCNA certification exam.

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): Computer Network Admin AAS & Certificate; Computer Support Certificate; Web Design AAS & Certificate

Are there prerequisites to this course?

Yes

Pre-reqs: CS-140 or CS-160, or Student Petition

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. Perform basic configurations for routers, switches, and end devices;
2. Model and build common local area network scenarios;
3. Develop simple IP addressing schemes;
4. Troubleshoot connectivity in a small network;
5. Understand foundational network security.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Networking today.
2. Basic switch and end device configuration.
3. Protocols and models.
4. Physical layer.
5. Number systems.
6. Data link layer.
7. Ethernet switching.
8. Network layer.
9. Address resolution.
10. Basic router configuration.
11. IPv4 addressing.
12. IPv6 addressing.
13. ICMP.
14. Transport layer.
15. Application Layer.
16. Network security fundamentals.
17. Build a small network.

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: Business & Computer Science: Computer Science

Submitter

First Name: Rick
Last Name: Carino
Phone: 3167
Email: rcarino

Course Prefix and Number: CS - 152

Credits: 4

Contact hours

Lecture (# of hours): 22
Lec/lab (# of hours): 44
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: Networking 2

Course Description:

This course focuses on switching technologies and router operations that support small-to-medium business networks. It includes wireless local area networks (WLANs) and security concepts. This course, along with CS-151 and CS-153, covers the topics of the Cisco CCNA certification exam.

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): Computer Network Admin AAS & Certificate; Computer Support Certificate

Are there prerequisites to this course?

Yes

Pre-reqs: CS-151

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. Understand intermediate switching and routing concepts;
2. Perform intermediate network configuration and troubleshooting;
3. Identify and mitigate LAN security threats;
4. Configure and secure a basic WLAN.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Single-Area OSPFv2 concepts.
2. Single-Area OSPFv2 configuration.
3. Network security concepts.
4. ACL concepts.
5. ACLs for IPv4 configuration.
6. NAT for IPv4.
7. WAN concepts
8. VPN and IPsec concepts.
9. QoS concepts.
10. Network management.
11. Network design.
12. Network troubleshooting.
13. Network virtualization.
14. Network automation.

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:

Clackamas Community College
Online Course/Outline Submission System

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Section #1 General Course Information

Department: Sciences

Submitter

First Name: **Emily**
Last Name: **Cavaliere**
Phone: **5034576517**
Email: **emily.cavaliere**

Course Prefix and Number: ESR - 171

Credits: 4

Contact hours

Lecture (# of hours): 33
Lec/lab (# of hours):
Lab (# of hours): 33
Total course hours: 66

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

Course Title: **Introduction to Environmental Science**

Course Description:

Introduction to environmental science topics. Will focus on human impacts on land, air, water and ecology, climate change, sustainability, environmental impacts on human health and environmental justice. The laboratory assignments will focus on applied introductory environmental science topics.

Type of Course: Lower Division Collegiate

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

No

Is general education certification being sought at this time?

Yes

Check which General Education requirement:

✓ Science & Computer Science

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?

Yes

Co-reqs: ESR-171L

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

Yes

Recommendations: MTH-060 or MTH-098 with a C or better, or placement in MTH-065. WRD-098 or placement in WR-121

Requirements:

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

No

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

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. Recognize human impacts on land, air, water and ecology; SC1
 2. Classify the basic principles of climate change; SC1
 3. Assess the environmental impacts of human activity on long-term sustainability, human health and environmental justice; SC1 & SC2
 4. Design experiments, construct hypotheses, plan and execute an introductory-level scientific study independently and collaboratively; SC1 & SC2
 5. Evaluate scientific information and be able to formulate questions and ideas on issues in environmental science SC1 & SC3
-

COURSE OUTLINE MAPPING CHART

Mark outcomes addressed by the course:

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

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

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

SP: Speech/Oral Communication Outcomes

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

MA: Mathematics Outcomes:

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

AL: Arts and Letters Outcomes

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
- ✓ Presentations
- ✓ Rubrics
- ✓ Projects
- ✓ Writing Assignments
- ✓ Multiple Choice Test
- ✓ Pre-Post Assessment

Major Topic Outline:

- Unit 1: Human impacts on land, air, water and ecology
- Unit 2: Fundamentals of climate change
- Unit 3: Sustainability, environmental health, environmental justice

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 **No**

Percent of course: 25%

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)
- ✓ OIT (Oregon Institute of Technology)
- ✓ OSU (Oregon State University)
- ✓ UO (University of Oregon)
- ✓ WOU (Western Oregon University)

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

ESM 101 at PSU

How does it transfer? (Check all that apply)

- ✓ general education or distribution requirement
- ✓ general elective
- :

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

- ✓ Other. Please explain.

Gen Ed Chart

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: Sciences

Submitter

First Name: **Emily**
Last Name: **Cavaliere**
Phone: **3549**
Email: **emily.cavaliere**

Course Prefix and Number: ESR - 172

Credits: 4

Contact hours

Lecture (# of hours): 33
Lec/lab (# of hours):
Lab (# of hours): 33
Total course hours: 66

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

Course Title: **Introduction to Sustainability**

Course Description:

Introduction to environmental, ecological and human sustainability. Focus on human impacts on environmental degradation and methods to approach sustainability and environmental justice. The laboratory assignments will focus on applied introductory sustainability topics.

Type of Course: Lower Division Collegiate

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

No

Is general education certification being sought at this time?

Yes

Check which General Education requirement:

✓ Science & Computer Science

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?

Yes

Co-reqs: ESR-172L

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

Yes

Recommendations: MTH-060 with a C or better or placement in MTH-065. WRD-098 or placement in WR-121

Requirements:

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

No

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

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 basic principles and differentiate between environmental and ecological sustainability; SC1
 2. Assess the environmental impacts of human activity on long-term sustainability; SC1 & SC2
 3. Evaluate how environmental degradation impacts environmental justice SC1 & SC2
 4. Design experiments, construct hypotheses, plan and execute an introductory-level a scientific study independently and collaboratively; SC1 & SC2
 5. Evaluate scientific information and be able to formulate questions and ideas on issues in environmental science; SC1 & SC3
-

COURSE OUTLINE MAPPING CHART

Mark outcomes addressed by the course:

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

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

SP: Speech/Oral Communication Outcomes

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

MA: Mathematics Outcomes:

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

AL: Arts and Letters Outcomes

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

SS: Social Science Outcomes

- P** 1. Apply analytical skills to social phenomena in order to understand human behavior.
- P** 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

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

Outcomes Assessment Strategies:

- ✓ General Examination
- ✓ Presentations
- ✓ Rubrics
- ✓ Projects
- ✓ Writing Assignments
- ✓ Multiple Choice Test
- ✓ Pre-Post Assessment

Major Topic Outline:

- Unit 1: Environmental and ecological sustainability
- Unit 2: Human sustainability and environmental justice
- Unit 3: Methods to approach sustainability (such as: industrial ecology, greenwashing, sustainable development)

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: 100%

Section #2 Course Transferability

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

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

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

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

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

OSU: SUS 102
PSU: ESM 102

How does it transfer? (Check all that apply)

general education or distribution requirement

general elective

:

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

Other. Please explain.

PSU and OSU websites and course descriptions.

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: Sciences

Submitter

First Name: **Emily**

Last Name: **Cavaliere**

Phone: **3549**

Email: **emily.cavaliere**

Course Prefix and Number: ESR - 173

Credits: 4

Contact hours

Lecture (# of hours): 33

Lec/lab (# of hours):

Lab (# of hours): 33

Total course hours: 66

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

Course Title: **Introduction to Climate Change**

Course Description:

Introduction to climate change, the causes and consequence and efforts to mitigate climate change. The laboratory assignments will focus on applied introductory climate change topics.

Type of Course: Lower Division Collegiate

Is this class challengeable?

No

Can this course be repeated for credit in a degree?

No

Is general education certification being sought at this time?

Yes

Check which General Education requirement:

✓ **Science & Computer Science**

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?

Yes

Co-reqs: ESR-173L

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

Yes

Recommendations: MTH-060 or MTH-098 with a C or better, or placement in MTH-065. WRD-098

Requirements:

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

No

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F or Pass/No Pass

Audit: Yes

When do you plan to offer this course?

✓ **Spring**

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

Yes

Student Learning Outcomes:

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

1. Describe the causes and consequences of climate change; SC1
 2. Assess and evaluate efforts to mitigate climate change; SC1 & SC2
 3. Design experiments, construct hypotheses, plan and execute an introductory-level a scientific study independently and collaboratively; SC1 & SC2
 4. Evaluate scientific information and be able to formulate questions and ideas on issues in environmental science; SC1 & SC3
-

COURSE OUTLINE MAPPING CHART

Mark outcomes addressed by the course:

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

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

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

SP: Speech/Oral Communication Outcomes

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

MA: Mathematics Outcomes:

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

AL: Arts and Letters Outcomes

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**
- ✓ **Presentations**
- ✓ **Rubrics**
- ✓ **Projects**
- ✓ **Writing Assignments**
- ✓ **Multiple Choice Test**
- ✓ **Pre-Post Assessment**

Major Topic Outline:

- Unit 1: Greenhouse gases and the physical basis for climate change
- Unit 2: Consequences of climate change on human health and ecological sustainability.
- Unit 3: Efforts to mitigate climate change (carbon tax, carbon sequestration, wetlands, alternative energy sources, etc.)

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

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

Percent of course: 70%

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)**
- ✓ **OIT (Oregon Institute of Technology)**
- ✓ **OSU (Oregon State University)**

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

OSU: SUS 103

How does it transfer? (Check all that apply)

- ✓ general education or distribution requirement
- ✓ general elective
- :

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

✓ **Other. Please explain.**

Gen Ed Chart

First term to be offered:

Specify term: Spring 2023

Clackamas Community College
Online Course/Outline Submission System

Show changes since last approval in red

Section #1 General Course Information

Department: Social Sciences

Submitter

First Name: **Jessica**
Last Name: **Kissler**
Phone: **6625**
Email: **jessica.kissler**

Course Prefix and Number: GEO - 208

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: Geography of the United States & Canada

Course Description:

Provides students with the fundamental geographical knowledge of the United States and Canada and their paths of development. Presents the spatial arrangement of culture, economics, politics, and the natural environment.

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?

Yes

Check which General Education requirement:

✓ **Social Science**

✓ **Cultural Literacy**

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: WRD-090 or placement in WRD-098

Requirements:

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

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F or Pass/No Pass

Audit: Yes

When do you plan to offer this course?

✓ **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?

Yes

Will this course appear in the schedule?

Yes

Student Learning Outcomes:

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

1. understand the role and impact of climate and topography on human settlement patterns and movements; (SS1)(SS2)(CL1)
 2. discuss historical and geographical factors that shape the landscapes of the United States and Canada; (SS1)(SS2)(CL1)
 3. identify key physical features, urban areas, political boundaries and cultural places and landmarks in the United States and Canada and use key geographical concepts to explore their relationships; (SS1)(SS2)(CL1)
 4. analyze social phenomena by evaluating geographical information, evidence, argument and/or theory to draw logical conclusions or implications. (SS1)
-

COURSE OUTLINE MAPPING CHART

Mark outcomes addressed by the course:

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

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

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

SP: Speech/Oral Communication Outcomes

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

MA: Mathematics Outcomes:

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

AL: Arts and Letters Outcomes

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

- S** 1. Apply analytical skills to social phenomena in order to understand human behavior.
- S** 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.

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

Outcomes Assessment Strategies:

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

- ✓ **Multiple Choice Test**

:

Major Topic Outline:

1. Survey of the spatial variations found in contemporary United States and Canada. Subjects surveyed include: politics, economics, traditional and popular culture, social systems, agriculture, climate, and topography.
2. Definition of core and periphery regions and the varying methods of identifying them.
3. Examination of past and future trends affecting the cultural and physical landscapes of these two countries and their paths to development.

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)**
- ✓ **OSU (Oregon State University)**
- ✓ **UO (University of Oregon)**

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

PSU GEO LD elective OSU GEOG LDT
UO GEOG 208 SOU LDT SOSCI EXPL

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)

Other. Please explain.

Oregon college transfer lists

First term to be offered:

Next available term after approval

:

Clackamas Community College
Online Course/Outline Submission System

Show changes since last approval in red

Section #1 General Course Information

Department: Horticulture

Submitter

First Name: **April**
Last Name: **Chastain**
Phone: **3055**
Email: **april.chastain**

Course Prefix and Number: HOR - 246

Credits: 2

Contact hours

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

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

Course Title: Organic Farming and Gardening

Course Description:

Overview of the fundamental principles and practices of organic fruit and vegetable production in the Pacific Northwest.

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

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. explain various cover cropping systems available for use,
2. describe the fundamentals of the composting process as used for organic farms and gardens,
3. list the range of organic pest control measures available for use,
4. list key components of the National Organic Program as applicable to a specific organic crop,
5. demonstrate how and why specific mulches are used in organic production,
6. describe the advantages and disadvantages of the different organic amendments and fertilizers acceptable for use under the National Organic Program,
7. examine the hows and whys of soil building available for use under the National Organic program.
8. list the general features of a Community Supported Agriculture operation.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Composting.
2. Community Supported Agricultural programs.
3. History of organic crop growing.
4. Intercropping.
5. Organic certification standards.
6. Soil building.
7. Utilize approved organic pest control measures.
8. Vegetable planting / harvest scheduling.
9. Mulches.
10. Cover crops.

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: 100%

First term to be offered:

Specify term: **spring 2022**

Program	Implementation
Accounting AAS	2022/SU
Accounting Clerk CC	2022/SU



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title	<u>APPROVED</u> CIP Code (Include 7 th & 8 th digits used for OCCURS reporting.)			<u>APPROVED</u> Recognition Award	Current Credits
(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)	6-digit CIP	7 th digit	8 th digit	<input checked="" type="checkbox"/> AAS (90-108 credits)	90
	AAS Title: Accounting AAS.ACCNTG	52.0301			
Option Title**				<input type="checkbox"/> <i>OPTION</i> to AAS Degree	
Related Programs: Accounting Clerk Certificate				<input type="checkbox"/> Certificate of Completion	

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

LAST AMENDMENT APPROVED ON 04.16.21

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

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

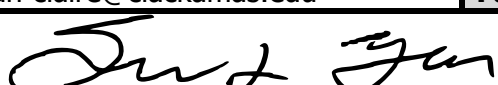
++If new program is an additional award for an existing degree or certificate, complete 'Program Information' section for existing program.

CURRICULUM AMENDMENT

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

<i>CURRENT CURRICULUM 21-22</i> [List entire curriculum as last approved]				<i>PROPOSED CURRICULUM 22-23</i> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
1 st Year							
Fall Term							
BA-101	Introduction to Business	44	4				
BA-104	Business Math	33	3	REMOVE			
BA-111	General Accounting I	33	3				
WR-121	English Composition	44	4	Move to Winter Term			
				BA-131	Introduction to Business Computing	44	4
				MTH-050*	Technical Mathematics I	44	4
Winter Term							
BA-112	General Accounting II	44	4				
BA-131	Introduction to Business Computing	44	4	Move to Fall Term			
*BA-156 Or EC-201	Business Forecasting Or Principles of Economics: MICRO	33-44	3-4	Move EC-201 to Spring Term			
BA-177	Payroll Accounting	33	3				
--	PE/Health/Safety/First Aid requirement		1				
				CS-135S	Microsoft Excel	33	3
				WR-121	English Composition	44	4
Spring Term							
BA-205	Business Communications with Technology	44	4				
BA-211	Financial Accounting	44	4				
BA-285	Human Relations in Business	44	4				
CS-135S	Microsoft Excel	33	3	Move to Winter Term			
				EC-201	Principles of Economics: MICRO	44	4
2 nd Year							
Fall Term							
BA-213	Decision Making with Accounting Information	44	4				
BA-218	Personal Finance	44	4				
BA-226	Business Law I	44	4				
WR-227	Technical Report Writing	44	4				
Winter Term							
BA-216	Cost Accounting	44	4				

BA-256	Income Tax Accounting	44	4				
*---	Program Electives		7-8	---	Program Electives		6
Spring Term							
BA-217	Budgeting for Managers	33	3				
BA-228	Computerized Accounting	33	3				
BA-240	Introduction to Financial Management	44	4				
BA-255	Governmental and Nonprofit Accounting	44	4				
Accounting Program Electives							
Any Business Administration (BA), Business Technology (BT), Computer Science (CS), or Economics (EC) course not included in the Accounting program or MTH-243				Any Business Administration (BA), Business Technology (BT), Computer Science (CS), or Economics (EC) course not included in the Accounting program or FYE-101, MTH-105, MTH-243, or LIB-101			
*Students who take BA-156 must complete 8 elective credits. Students who take EC-201 must complete 7 elective credits.				REMOVE			
				*or higher, based on advising placement. Substitute college transfer courses for these courses if you plan to continue your education at a higher education institution. It is recommended that you consult with a faculty or academic advisor for the transfer requirements of the specific advanced program or school.			
TOTAL CURRENT CREDITS:			90	TOTAL PROPOSED CREDITS:			

College Contact	Dr. Joan San-Claire	Telephone No.	3013
E-Mail Address	joan.san-claire@clackamas.edu	Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	3/29/22



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<u>APPROVED</u> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<u>APPROVED</u> CIP Code			<u>APPROVED</u> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
Parent AAS Title: Accounting AAS				<input type="checkbox"/> Associate of Applied Science (AAS) Degree	
Option Title**				<input type="checkbox"/> OPTION to AAS Degree	
Certificate Title: <i>Within</i> AAS Degree? <input checked="" type="checkbox"/> Yes** <input type="checkbox"/> No Accounting Clerk CC.ACNTGLERK	52.0302	J	*	<input type="checkbox"/> CC1R Related Certificate (45-60 credits)	45

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

LAST AMENDMENT APPROVED ON 04.16.21

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)


<input type="checkbox"/> New Program++	<input type="checkbox"/> Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
<input type="checkbox"/> Title Change for Program		<i>Proposed Total Credits:</i> 45-48
<i>Proposed AAS Title:</i>		
<i>Proposed OPTION Title:</i>		
<i>Proposed Certificate Title:</i>		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

CURRICULUM AMENDMENT

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

<i>CURRENT CURRICULUM 21-22</i> [List entire curriculum as last approved]				<i>PROPOSED CURRICULUM 22-23</i> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
Fall Term							
BA-101	Introduction to Business	44	4				
BA-104	Business Math	33	3	REMOVE			
BA-111	General Accounting I	33	3				
WR-121	English Composition	44	4	Move to Winter Term			
				BA-131	Introduction to Business Computing	44	4
				MTH-050*	Technical Mathematics I	44	4
Winter Term							
BA-112	General Accounting II	44	4				
BA-131	Introduction to Business Computing	44	4	Move to Fall Term			
*BA-156 Or EC-201	Business Forecasting Or Principles of Economics: MICRO	33-44	3-4	Move EC-201 to Spring Term			
BA-177	Payroll Accounting	33	3				
				CS-135S	Microsoft Excel	33	3
				WR-121	English Composition	44	4
				---	Program Electives		1-4
Spring Term							
BA-211	Financial Accounting	44	4				
BA-228	Computerized Accounting	33	3				
BA-285	Human Relations in Business	44	4				
CS-135S	Microsoft Excel	33	3	Move to Winter Term			
*---	Program Electives		2-3	REMOVE			
				EC-201	Principles of Economics: MICRO	44	4
Accounting Clerk Program Electives							
Any Business Administration (BA) or Business Technology (BT) course not included in the Accounting Clerk program.				Any Business Administration (BA) or Business Technology (BT) course not included in the Accounting Clerk program or FYE-101 or LIB-101			
Catalog Notes							
*Students who take BA-156 must complete 3 elective credits. Students who take EC-201 must complete 2 elective credits.				REMOVE			
Courses in this program can be applied to satisfy elective requirements in the Business AAS degree.							
				*or higher, based on advising placement. Substitute college transfer courses for these courses if you plan to continue your education at a higher education institution. It is recommended that you consult with a faculty or academic advisor for the transfer requirements of the specific advanced program or school.			

TOTAL CURRENT CREDITS:	45	TOTAL PROPOSED CREDITS:	45-48
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College Contact	Dr. Joan San-Claire	Telephone No.	3013
E-Mail Address	joan.san-claire@clackamas.edu	Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	3/29/22



April 15, 2022

Course	Current Hours/Credits	Proposed Hours/Credits
APR-128UL	24 LE/LA, 1 Credit	40 LE/LA, 2 Credits
APR-138UL	24 LE/LA, 1 Credit	40 LE/LA, 2 Credits

Clackamas Community College
Online Course/Outline Submission System

Show changes since last approval in red

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 128UL

Credits: 2

Contact hours

Lecture (# of hours):
Lec/lab (# of hours): 40
Lab (# of hours):
Total course hours: 40

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: Transformer Connections II

Course Description:

Instruct apprentices or journey-level workers on the fundamentals of transformer bank connections: delta-delta, wye-wye, wye-delta, open-delta, open-delta-wye and single-phase regulators and conditions that can cause backfeed. Transformer training is required to be taken each of the three years of a line apprenticeship in order to meet degree requirements. 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?

Yes

Name of degree(s) and/or certificate(s): Electrical Apprenticeship Technologies AAS

Are there prerequisites to this course?

Yes

Pre-reqs: APR-118UL

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:

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: 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?

Yes

Will this course appear in the schedule?

No

Student Learning Outcomes:

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

1. identify proper transformer bank connections,
2. explain the results of wrong polarity, wrong taps and wrong connections;
3. implement safety procedures in connections of transformer banks and regulators,
4. perform voltage and current readings,
5. explain the relationship between mathematics and electricity in a distribution environment.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Vectoring.
2. Single phase theory.
3. Transformer concepts.
4. Transformer connections.
5. Installing transformers.
6. Voltage ratings.

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

Show changes since last approval in red

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 138UL

Credits: 2

Contact hours

Lecture (# of hours):
Lec/lab (# of hours): 40
Lab (# of hours):
Total course hours: 40

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: Transformer Connections III

Course Description:

Instruct apprentices or journey-level workers on the fundamentals of transformer bank connections: delta-delta, wye-wye, wye-delta, open-delta, open-delta-wye and single-phase regulators and conditions that can cause backfeed. Transformer training is required to be taken each of the three years of a line apprenticeship in order to meet degree requirements. 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?

Yes

Name of degree(s) and/or certificate(s): Electrical Apprenticeship Technologies AAS

Are there prerequisites to this course?

Yes

Pre-reqs: APR-128UL

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:

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: 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?

Yes

Will this course appear in the schedule?

No

Student Learning Outcomes:

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

1. identify proper transformer bank connections,
2. explain the results of wrong polarity, wrong taps and wrong connections;
3. implement safety procedures in connections of transformer banks and regulators,
4. perform voltage and current readings,
5. explain the relationship between mathematics and electricity in a distribution environment.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Vectoring.
2. Single phase theory.
3. Transformer concepts.
4. Transformer connections.
5. Installing transformers.
6. Voltage ratings.

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	Implementation
Construction Trades, General Apprenticeship AAS	2022/SU
Construction Trades, General Apprenticeship CC	2022/SU
Electrician Apprenticeship Technologies AAS	2022/SU
Electrician Apprenticeship Technologies CC	2022/SU
Industrial Mechanics and Maintenance Technology Apprenticeship AAS	2022/SU



COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<i>APPROVED</i> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<i>APPROVED</i> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
Parent Program Construction Trades, General Apprenticeship AAS	46.0000	N	*	<input type="checkbox"/> Statewide AAS (90-108 credits)	90-97
Apprenticeship Areas: Plumber (PB) Painter (PT)	AAS.CONSTRUCTPB AAS.CONSTRUCTPT			<input type="checkbox"/>	
Related Certificates: Manual Apprenticeship Trades SCPC				<input type="checkbox"/>	

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

Last amendment approved on 12.03.21

TYPE OF PROGRAM AMENDMENT


(Check ALL That Apply)

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

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

CURRICULUM AMENDMENT

<i>CURRENT CURRICULUM 21-22</i>				<i>PROPOSED CURRICULUM 22-23</i>			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
APR000	Apprenticeship Credit for Prior Certification		22				
APR1000	Computation Related Instruction (except MTH-080)		4-5	APR1000	Computation Related Instruction		3-5
APR2000	Communication Related Instruction		3-4				
APR3000	Human Relations Related Instruction		3-4				
PEHREQ000	PE/Health Related Instruction		1-3				
APRPB000	Apprenticeship-Plumber (PB) SAAS		59				
APR-109PB	Plumbing Conservation Systems	20	2				
APR-117PB	Plumbing Basic Trade & Code	33	3				
APR-127PB	Plumbing Fittings & Materials	33	3				
APR-137PB	Plumbing Basic Installation & ISO	33	3				
APR-147PB	Plumbing Math	33	3				
APR-157PB	Plumbing Pipe Sizing & Advanced Math	33	3				
APR-167PB	Plumbing Welding and Print Reading	33	3				
APR-177PB	Plumbing Related Science	33	3				
APR-187PB	Plumbing Related Codes	33	3				
APR-197PB	Plumbing Backflow Prevention	20	1				
APR-205PB	Service Plumbing	33	3				
APR-207PB	Municipal Systems	20	2				
APR-217PB	Advanced Plumbing Installation	33	3				
APR-227PB	Plumbing Gas Venting & Drains	33	3				
APR-237PB	Plumbing Water Heater & Circuit Controls	33	3				
APR-247PB	Advanced Plumbing Code I	33	3				
APR-257PB	Advanced Plumbing Code II	33	3				
APR-267PB	Advanced Plumbing Code III	33	3				
APR-276PB	Plumbing Review I	33	3				
APR-277PB	Plumbing Review II	33	3				
APR-287PB	Plumbing Review III	33	3				
APRPT000	Apprenticeship-Painter (PT)		18				
--	Painter (PT) Electives		39-34	--	Painter (PT) Electives		40-34
APR-119PT	Basic Trade & Safety	33	2				
APR-129PT	Basic Surface & Preparation	33	2				
APR-139PT	Hand & Mechanical Cleaning	33	2				
APR-149PT	Basic Applications	33	2				
APR-159PT	Basic Covering & Problem Solving	33	2				
APR-169PT	Advanced Coating	33	2				
APR-219PT	Advanced Graphics & Texturing	33	2				
APR-229PT	Advanced Techniques	33	2				
APR-239PT	Advanced Estimating & Codes	33	2				
Electives							
Any 100-level course or above							
TOTAL CURRENT CREDITS:				90-97	TOTAL PROPOSED CREDITS:		

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer <i>or</i> PTE Dean Signature			Date 4/4/22

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COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<i>APPROVED</i> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<i>APPROVED</i> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
Parent Program	46.0000	N	*	<input type="checkbox"/> Statewide AAS (90-108 credits)	
Apprenticeship Area: Plumber (PB)	CC.CONSTRUCTPB			<input type="checkbox"/>	
Certificate: Construction Trades, General Apprenticeship SCC1				<input type="checkbox"/> SCC1 (45-60 credits)	59-62

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

Last amendment approved on 12.03.21

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

New Program++ Title Change for Program	Curriculum Revision	<input type="checkbox"/> Revision in Program Credits	
		<i>Proposed Total Credits:</i>	59-63
<i>Proposed AAS Title:</i>			
<i>Proposed OPTION Title:</i>			
<i>Proposed Certificate Title:</i>			
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>		
Suspension Effective Date:			

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

CURRICULUM AMENDMENT

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

<i>CURRENT CURRICULUM 21-22</i> [List entire curriculum as last approved]				<i>PROPOSED CURRICULUM 22-23</i> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
APR1000	Computation Related Instruction		3-4	APR1000	Computation Related Instruction		3-5
APR2000	Communication Related Instruction		3-4				
APR3000	Human Relations Related Instruction		3-4				
APRPB1000	Apprenticeship-Plumber (PB) SSC1		50				
APR-109PB	Plumbing Conservation Systems	20	2				
APR-117PB	Plumbing Basic Trade & Code	33	3				
APR-127PB	Plumbing Fittings & Materials	33	3				
APR-137PB	Plumbing Basic Installation & ISO	33	3				
APR-147PB	Plumbing Math	33	3				
APR-157PB	Plumbing Pipe Sizing & Advanced Math	33	3				
APR-167PB	Plumbing Welding and Print Reading	33	3				
APR-177PB	Plumbing Related Science	33	3				
APR-187PB	Plumbing Related Codes	33	3				
APR-197PB	Plumbing Backflow Prevention	20	1				
APR-205PB	Service Plumbing	33	3				
APR-207PB	Municipal Systems	20	2				
APR-217PB	Advanced Plumbing Installation	33	3				
APR-227PB	Plumbing Gas Venting & Drains	33	3				
APR-237PB	Plumbing Water Heater & Circuit Controls	33	3				
APR-247PB	Advanced Plumbing Code I	33	3				
APR-257PB	Advanced Plumbing Code II	33	3				
APR-267PB	Advanced Plumbing Code III	33	3				
TOTAL CURRENT CREDITS:			59-62	TOTAL PROPOSED CREDITS:			59-63

College Contact	Telephone No.
E-Mail Address	Fax No.
Chief Academic Officer or PTE Dean Signature	Date 4/4/22

Justin R. [Signature]

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COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<i>APPROVED</i> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<i>APPROVED</i> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
Parent Program Electrician Apprenticeship Technologies SAAS	46.0301	I	*	<input type="checkbox"/> Statewide AAS (90-108 credits)	90-102
Apprenticeship Area: Inside Electrician (IE) Limited Energy (LE) Lineman (UL) Meterman (UM) Wireman (UW) Limited Maintenance Electrician (LME) Line Estimator (UE)	AAS.ELECTRICIANIE AAS.ELECTRICIANLE AAS.ELECTRICIANUL AAS.ELECTRICIANUM AAS.ELECTRICIANUW AAS.ELECTRICIANLME AAS.ELECTRICIANUE			<input type="checkbox"/>	
Related Certificates: Limited License Electrician Apprenticeship Technologies SCPC				<input type="checkbox"/>	

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

Last amendment approved on 02.18.22

TYPE OF PROGRAM AMENDMENT

(Check ALL That Apply)

New Program++	Curriculum Revision	<input type="checkbox"/> Revision in Program Credits
Title Change for Program		<i>Proposed Total Credits:</i> 90-94
<i>Proposed AAS Title:</i>		
<i>Proposed OPTION Title:</i>		
<i>Proposed Certificate Title:</i>		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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


CURRICULUM AMENDMENT

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

<i>CURRENT CURRICULUM 21-22</i>				<i>PROPOSED CURRICULUM 22-23</i>			
[List entire curriculum as last approved]				[List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
APR000	Apprenticeship-Credit for Prior Certification		22				
APR1000	Computation Related Instruction (except MTH-080)		4-5	APR1000*	Computation Related Instruction		3-5
APR2000	Communication Related Instruction		3-4				
APR3000	Human Relations Related Instruction		3-4				
PEHREQ000	PE/Health Related Instruction		1-3				
APRIE000	Apprenticeship-Inside Electrician (IE)		46				
--	Inside Electrician (IE) Electives		11-6	--	Inside Electrician (IE) Electives		12-6
APR-125IE	DC Theory	36	3				
APR-134IE	Residential Wiring I	36	3				
APR-135IE	Residential Wiring II	36	3				
APR-136IE	Electrical Design I	36	3				
APR-145IE	Grounding & Bonding	36	3				
APR-155IE	Motors & Transformers	36	3				
APR-165IE	AC Theory	36	3				
APR-185IE	Electrical Systems	36	3				
APR-235IE	Special Installations	36	3				
APR-236IE	Motors & Controls	36	3				
APR-236IEL	Motors & Controls Lab	36	1				
APR-237IE	Electrical Design II	36	3				
APR-245IE	NEC Analysis I	36	3				
APR-255IE	NEC Analysis II	36	3				
APR-265IE	NEC Analysis III	36	3				
APR-275IE	NEC Analysis IV	36	3				
APRLE000	Apprenticeship-Limited Energy (LE)		36				
--	Limited Energy (LE) Electives		21-16	--	Limited Energy (LE) Electives		22-16
APR-111LE	Residential Technologies	48	4				
APR-112LE	Basic Trade, Code & Safety	48	4				
APR-113LE	Specialized Control Systems	48	4				
APR-114LE	Data Communications	48	4				
APR-115LE	Amplified Systems	48	4				
APR-116LE	Security Systems	48	4				
APR-217LE	Integrated Systems	48	4				
APR-218LE	Fire Alarm Systems	48	4				
APR-219LE	ADA & Code	48	4				
APRUL000	Apprenticeship-Lineman (UL)		45				
--	Lineman (UL) Electives		17	--	Lineman (UL) Electives		13-7
APR-111UL	Outside Electrical Basic Theory I	55	5				

APR-112UL	Outside Electrical Basic Theory II	55	5				
APR-113UL	Outside Electrical Basic Theory III	55	5				
APR-121UL	Outside Electrical Fundamental Theory I	55	5				
APR-122UL	Outside Electrical Fundamental Theory II	55	5				
APR-123UL	Outside Electrical Fundamental Theory III	55	5				
APR-231UL	Outside Electrical Advanced Theory I	55	5				
APR-232UL	Outside Electrical Advanced Theory II	55	5				
APR-233UL	Outside Electrical Advanced Theory III	55	5				
PGE Apprentice Recommended Electives							
APR-118UL	Transformer Connections I	24	1				
APR-128UL	Transformer Connections II	40	2				
APR-138UL	Transformer Connections III	40	2				
APRUM000	Apprenticeship-Meterman (UM)		45				
--	Meterman (UM) Electives		14	--	Meterman (UM) Electives		13-7
APR-111UM	Metering: Basics I	55	5				
APR-112UM	Metering: Basics II	55	5				
APR-113UM	Metering: Basics III	55	5				
APR-121UM	Metering: Fundamentals I	55	5				
APR-122UM	Metering: Fundamentals II	55	5				
APR-123UM	Metering: Fundamentals III	55	5				
APR-231UM	Metering: Advanced I	55	5				
APR-232UM	Metering: Advanced II	55	5				
APR-233UM	Metering: Advanced III	55	5				
PGE Apprentice Recommended Electives							
APR-118UL	Transformer Connections I	24	1				
APR-128UL	Transformer Connections II	40	2				
APR-138UL	Transformer Connections III	40	2				
APRUW000	Apprenticeship-Wireman (UW)		45				
--	Wireman (UW) Electives		19	--	Wireman (UW) Electives		13-7
APR-111UW	Basic Substation Wireman I	55	5				
APR-112UW	Basic Substation Wireman II	55	5				
APR-113UW	Basic Substation Wireman III	55	5				
APR-121UW	Fundamental Substation Wireman I	55	5				
APR-122UW	Fundamental Substation Wireman II	55	5				
APR-123UW	Fundamental Substation Wireman III	55	5				
APR-231UW	Advanced Substation Wireman I	55	5				
APR-232UW	Advanced Circuit Theory & Troubleshooting I	55	5				

APR-233UW	Advanced Circuit Theory & Troubleshooting II	55	5				
APRLME000	Apprenticeship-Limited Maintenance Electrician (LME)		28				
--	Limited Maintenance Electrician (LME) Electives		29-24	--	Limited Maintenance Electrician (LME) Electives		31-27
APR-104LM	Reading Schematics and Symbols	22	2				
APR-108LM	ARC Flash Electrical Safety	10	1				
APR-130LM	Basic Electricity I	33	3				
APR-131LM	Basic Electricity II	33	3				
APR-132LM	Basic Electricity III	33	3				
APR-202LM	Electrical Code Level I	44	4				
APR-203LM	Electrical Code-Level II	44	4				
APR-204LM	Electrical Code-Level III	44	4				
APR-223LM	Instrumentation & Controls	66	3				
HE-261	Community CPR	10	1	HE-261**	Community CPR	10	1
APRUE000	Apprenticeship-Line Estimator (UE)		57				
APR-111UE	Line Estimator Basic I: Tools and Equipment	44	4				
APR-112UE	Line Estimator Basic II: Electrical Theory	44	4				
APR-113UE	Line Estimator Basic III: Wire Circuits	44	4				
APR-121UE	Line Estimator Theory I: Operations	44	4				
APR-122UE	Line Estimator Theory II: Standards	44	4				
APR-123UE	Line Estimator Theory III: Power Line	44	4				
APR-131UE	Electric Utility System Operation (EUSO)	30	3				
APR-132UE	Estimator Navigational Mapping	30	3				
APR-133UE	Estimator Facility Point Inspection	30	3				
APR-134UE	Estimator Phase Design	30	3				
APR-135UE	Estimator Metering	30	3				
APR-136UE	Estimator Transformer Training	30	3				
APR-137UE	Estimator Field Functions	30	3				
APR-231UE	Line Estimator Responsibility I: Live Line	44	4				
APR-232UE	Line Estimator Responsibility II: Substation	44	4				
APR-233UE	Line Estimator Responsibility III: Field Responsibility	44	4				
Electives							
Electives may be any 100-level course or above							
Catalog Notes							
*4 credits of Computation required for Line Estimator (UE)							
				**satisfies the PE/Health/Safety/First Aid Related Instruction requirement			
TOTAL CURRENT CREDITS:			90-102	TOTAL PROPOSED CREDITS:			90-94

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer <i>or</i> PTE Dean Signature			Date 4/4/22

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COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

PROGRAM INFORMATION					
<i>APPROVED</i> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<i>APPROVED</i> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
Parent Program	46.0301	I	*	<input type="checkbox"/> Statewide AAS (90-108 credits)	
Apprenticeship Area: Inside Electrician (IE) Limited Energy (LE)	CC.ELECTRICIANIE CC.ELECTRICIANLE			<input type="checkbox"/>	
Certificate: Electrician Apprenticeship Technologies SCC1				<input type="checkbox"/> SCC1 (45-60 credits)	45-58

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

Last amendment approved on 03/20/20


TYPE OF PROGRAM AMENDMENT <small>(Check ALL That Apply)</small>		
New Program++ Title Change for Program	Curriculum Revision	<input type="checkbox"/> Revision in Program Credits <i>Proposed Total Credits:</i> 45-59
<i>Proposed AAS Title:</i>		
<i>Proposed OPTION Title:</i>		
<i>Proposed Certificate Title:</i>		
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>	
Suspension Effective Date:		

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

CURRICULUM AMENDMENT

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

<i>CURRENT CURRICULUM 21-22</i> [List entire curriculum as last approved]				<i>PROPOSED CURRICULUM 22-23</i> [List only course(s) to be amended]			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
APR1000	Computation Related Instruction		3-4	APR1000	Computation Related Instruction		3-5
APR2000	Communication Related Instruction		3-4				
APR3000	Human Relations Related Instruction		3-4				
Course Group 1							
APRIE000	Apprenticeship-Inside Electrician (IE)		46				
APR-125IE	DC Theory	36	3				
APR-134IE	Residential Wiring I	36	3				
APR-135IE	Residential Wiring II	36	3				
APR-136IE	Electrical Design I	36	3				
APR-145IE	Grounding & Bonding	36	3				
APR-155IE	Motors & Transformers	36	3				
APR-165IE	AC Theory	36	3				
APR-185IE	Electrical Systems	36	3				
APR-235IE	Special Installations	36	3				
APR-236IE	Motors & Controls	36	3				
APR-236IEL	Motors & Controls LAB	36	1				
APR-237IE	Electrical Design II	36	3				
APR-245IE	NEC Analysis I	36	3				
APR-255IE	NEC Analysis II	36	3				
APR-265IE	NEC Analysis III	36	3				
APR-275IE	NEC Analysis IV	36	3				
APRLE000	Apprenticeship-Limited Energy (LE)		36				
APR-111LE	Residential Technologies	48	4				
APR-112LE	Basic Trade, Code & Safety	48	4				
APR-113LE	Specialized Control Systems	48	4				
APR-114LE	Data Communications	48	4				
APR-115LE	Amplified Systems	48	4				
APR-116LE	Security Systems	48	4				
APR-217LE	Integrated Systems	48	4				
APR-218LE	Fire Alarm Systems	48	4				
APR-219LE	ADA & Code	48	4				
TOTAL CURRENT CREDITS:			45-58	TOTAL PROPOSED CREDITS:			45-59

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	4/4/22

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COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

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

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

College:	Clackamas Community College	Date	
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CAREER LEARNING AREA

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

PROGRAM INFORMATION

<i>APPROVED</i> Program Title <small>(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)</small>	<i>APPROVED</i> CIP Code <small>(Include 7th & 8th digits used for OCCURS reporting.)</small>			<i>APPROVED</i> Recognition Award	Current Credits
	<i>6-digit CIP</i>	<i>7th digit</i>	<i>8th digit</i>		
Parent Program Industrial Mechanics and Maintenance Technology Apprenticeship AAS AAS.MACHINIST	47.0303	N	*	<input type="checkbox"/> Statewide AAS (90-108 credits)	90-94
Apprenticeship Areas:				<input type="checkbox"/>	
Related Certificates: Mechanics and Maintenance Apprenticeship Technologies: Trade Worker Apprenticeship Technologies CPCC				<input type="checkbox"/>	

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

Last amendment approved on 3/4/22

TYPE OF PROGRAM AMENDMENT


(Check ALL That Apply)

New Program++ Title Change for Program	Curriculum Revision	<input type="checkbox"/> Revision in Program Credits	
		<i>Proposed Total Credits:</i>	90
<i>Proposed AAS Title:</i>			
<i>Proposed OPTION Title:</i>			
<i>Proposed Certificate Title:</i>			
<input type="checkbox"/> SUSPENSION of Program	<i>Reason for Suspension:</i>		
Suspension Effective Date:			

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

CURRICULUM AMENDMENT

<i>CURRENT CURRICULUM 21-22</i>				<i>PROPOSED CURRICULUM 22-23</i>			
Course	Title	Hours	Credits	Course	Title	Hours	Credits
APR000	Apprenticeship Credit for Prior Certification		22				
APR2000	Communication Related Instruction		3-4				
APR3000	Human Relations Related Instruction		3-4				
PEHREQ000	PE/Health Related Instruction		1-3				
--	Apprenticeship-Machinist (MA) SAAS		61				
APRMAEL000	Machinist (MA) Electives		25	APRMAEL000	Machinist (MA) Electives		25-21
APR-104MA	Print Reading	33	3				
APR-106MA	Advanced Applied Geometric Dimensioning and Tolerancing for Manufacturing	33	3				
APR-111MA	Manual Machining I	88	4				
MTH-080	Technical Mathematics II	33	3				
APR-112MA	Manual Machining II	88	4				
APR-113MA	Manual Machining III	88	4				
APR-201MA	CNC I: Set-up and Operation	88	4				
APR-202MA	CNC II: Programming and Operation	88	4				
APR-203MA	CNC III: Applied Programming and Operation	88	4				
APR-254MA	Mill/Turn Machining	66	3				
Electives							
any 100-level course or above							
TOTAL CURRENT CREDITS:			90-94	TOTAL PROPOSED CREDITS:			90

College Contact		Telephone No.	
E-Mail Address		Fax No.	
Chief Academic Officer or PTE Dean Signature		Date	4/4/22

April 15, 2022

Course Number	Title	Implementation
CS-153	Networking 3	2022/SU

Clackamas Community College
Online Course/Outline Submission System

Consent Agenda Requests

Section #1 General Course Information

Department: Business & Computer Science: Computer Science

Submitter

First Name: Rick
Last Name: Carino
Phone: 3167
Email: rcarino

Course Prefix and Number: CS - 153

Credits: 4

Contact hours

Lecture (# of hours): 22
Lec/lab (# of hours): 44
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: Networking 3

Course Description:

This course describes the architectures and considerations related to designing, securing, operating, and troubleshooting enterprise networks. This course covers wide area network (WAN) technologies and quality of service (QoS) mechanisms used for secure remote access. It also introduces software-defined networking, virtualization, and automation concepts that support the digitalization of networks. This course, along with CS-151 and CS-152, covers the topics of the Cisco CCNA certification exam.

Type of Course: Career Technical Preparatory

Reason for the new course:

Industry certification change. Cisco has moved from a 2+2- course certification structure to a 3-course certification. We previously offered the first 2-course series which corresponded with a (jr.) certification. Since the 2-course certification is no longer offered, we would like to add this third networking course to correspond with Cisco's new 3-course certification. Note: we do not teach *to* the certification nor offer the certification directly; our courses teach the certification content but students still need to sit the professional examination through a third party to obtain the official certification.

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): Computer Network Admin AAS & Certificate; Computer Support Certificate

Are there prerequisites to this course?

Yes

Pre-reqs: CS-152

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: No

When do you plan to offer this course?

✓ **Not every year**

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. Configure and troubleshoot enterprise networks;
2. Identify and protect against common cybersecurity threats;
3. Demonstrate the usage of network management tools, including controller-based architectures;
4. Explain software-defined networking, network automation, and evolving networks.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Basic device configuration.
2. Switching concepts.
3. VLANs.
4. Inter-VLAN routing.
5. STP concepts.
6. EtherChannel.
7. DHCPv4.
8. SLAAC and DHCPv6.
9. FHRP concepts.
10. LAN security concepts.
11. Switch Security configuration.
12. WLAN concepts.
13. WLAN configuration.
14. Routing concepts.
15. IP Static routing.
16. Troubleshoot static and default routes.

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

:

Curriculum Committee Membership 22-23

vacant

Curriculum Committee/Curriculum Office

Member	Committee Role	Ending Term	Term Cycle
Kerrie Hughes	Chair	2024/SP	2-year
	Alternate Chair	2024/SP	2-year
David Plotkin	Vice President, Instruction & Student Services	Ex-Officio	Permanent
Jason Kovac	Dean, Institutional Effectiveness & Planning	Ex-Officio	Permanent
Lisa Reynolds	Associate Dean, Institutional Effectiveness & Planning	Ex-Officio	Permanent
Dru Urbassik	Director, Curriculum & Scheduling	Ex-Officio	Permanent
Megan Feagles	Curriculum & Scheduling Office/Recorder	Ex-Officio	Permanent
Elizabeth Carney	Center for Teaching and Learning Representative	Ex-Officio	Permanent
Rotates	ASG Student Representative	Ex-Officio	Permanent
	Library	2021/SP	3-year

Academic Foundations and Connections (AFAC)

Member	Committee Role	Ending Term	Term Cycle
Tara Sprehe	Dean, AFAC	Ex-Officio	Permanent
Terrie Sanne	Financial Aid	Ex-Officio	Permanent
Sarah Steidl	Graduation Services	Ex-Officio	3-year
Dustin Bare	Director, Student Academic Support Services	2023/SP	3-year
Kara Leonard	Academic and Career Coaches	2023/SP	3-year
Andrea Vergun	Basic Skills Development & ESL	2025/SP	3-year
Amanda Coffey	English	2024/SP	3-year
Tracy Nelson	Health/Physical Education; Review Team Lead	2025/SP	3-year
Scot Pruyun	Math	2022/SP	3-year
Casey Sims*	Faculty-At-Large	2023/SP	3-year

Arts & Sciences

Member	Committee Role	Ending Term	Term Cycle
Sue Goff	Dean, Arts & Sciences	Ex-Officio	Permanent
Bev Forney	Associate Dean, Arts & Sciences; Review Team Lead	Ex-Officio	Permanent
Nora Brodnicki	Art, Comm, Theatre, Journalism, World Lang, Music	2023/SP	3-year
George Burgess	Faculty-At-Large	2023/SP	3-year
Rick Carino	Computer Science	2023/SP	3-year
Patricia McFarland	Faculty-At-Large	2024/SP	3-Year
Jim Wentworth-Plato	Horticulture	2023/SP	3-year
Eden Francis	Sciences and Engineering	2022/SP	3-year
Kerrie Hughes	Faculty-At-Large	2024/SP	3-year
Charles Siegfried	Associate Faculty	2022/SP	3-year
	Faculty-At-Large		3-year

Technology, Applied Science, and Public Services (TAPS)

Member	Committee Role	Ending Term	Term Cycle
Cynthia Risan	Dean, TAPS	Ex-Officio	Permanent
Shalee Hodgson	Associate Dean, TAPS; Review Team Lead	Ex-Officio	Permanent
Jeff Ennenga	Wilsonville, Apprenticeship, Fire, Emergency	2023/SP	3-year
Sharron Furno**	Education, Human Services, Criminal Justice/Public Services	2023/SP	3-year
Dawn Hendricks	Faculty-At-Large	2024/SP	3-year
Mike Mattson	Industrial Technology	2024/SP	3-year
Helen Wand	Nursing, Allied Health/Associate Faculty	2024/SP	3-year
	Automotive/Welding	2021/SP	3-year

Sub-Committees

Related Instruction Sub-Committee

Member	Ending Term
Shalee Hodgson (Lead)	Ex-Officio
Sarah Steidl	Ex-Officio
Kerrie Hughes	2024/SP
Tracy Nelson	2025/SP

General Education Sub-Committee

Member	Ending Term
Lisa Reynolds (Lead)	Ex-Officio
Elizabeth Carney	Ex-Officio
Nora Brodnicki	2023/SP
Sharron Furno**	2023/SP
Kerrie Hughes	2024/SP
Patricia McFarland	2024/SP

2021-2022 Sabbaticals

*Casey Sims replaced by Lupe Martinez while on sabbatical in 22/WI and 22/SP

2022-2023 Sabbaticals

**Sharron Furno

ISP 161

Course Creation, Edits, Inactivation, and Reactivation

PURPOSE

Establishes standards for creating, editing, inactivating and reactivating courses.

SUMMARY

Each department is responsible for submitting outlines for new courses as well as updating currently approved outlines, and inactivating or reactivating courses as needed. Curriculum Committee and the Office of Community Colleges and Workforce Development (CCWD) approval are required for all credit bearing courses, except for experimental courses (xxx-199 and xxx-299) which are offered for a limited time only.

STANDARD

- A) Departments will assess the need and impact of proposed new courses and course edits prior to Department Chair and Division Dean approval. Edits include changes, inactivation, and reactivation of courses.
- B) The Division Dean will provide approval to the Curriculum Office when new courses are entered into the [Curriculum Management System](#).
- C) New courses and edited courses will meet all required CCWD and/or accreditation requirements.
- D) Departments will submit new courses and edit existing courses through the [Curriculum Management System](#).
- E) New course numbers will be determined between the course submitter and the Curriculum Office.
- F) The Curriculum Office will be responsible for entering new and updating existing course information into the Student Information System and with CCWD.
- G) Departments will provide notification of course inactivation or reactivation to the Curriculum Office.
- H) The Curriculum Committee will approve the general education designation of courses based on whether the course meets the CCWD and/or accreditation criteria for effective general education courses. As part of the process, the general education course certification will indicate how the course's student learning outcomes align with the general education student learning outcomes.
- H)I) The Curriculum Office will make available a process document outlining the steps for a new course approval, course edits, course inactivation, and course reactivation.

REVIEW HISTORY

ISP Committee	Adopted	May 14, 2021
College Council	Reviewed	May 7, 2021
College Council	Reviewed	May 16, 2014

College Council	Reviewed	April 17, 2009
College Council	Reviewed	February 19, 2004
Instructional Council	Adopted	January 23, 1996

FYE Data

		2017		2018		2019		2020		2021	
		*Non FYE	**FYE	Non FYE	FYE	Non FYE	FYE	Non FYE	FYE	Non FYE	FYE
Credit	*Earned 9+ College Credits 1st Term	19.3%	44.9%	15.3%	51.1%	19.6%	43.9%	21.5%	30.3%	13.7%	31.6%
Momentum	*Earned 12+ College Credits 1st Term	12.0%	22.4%	9.7%	29.6%	11.1%	23.6%	16.5%	13.1%	8.5%	14.3%
	Earned 36+ College Credits	7.6%	23.5%	7.6%	28.1%	7.5%	19.6%	9.5%	9.1%	0.0%	0.0%
	Earned 45+ College Credits	2.7%	8.2%	2.9%	8.1%	3.1%	4.7%	3.2%	4.0%	0.0%	0.0%
	Attempted 45+ College Credits	4.7%	13.3%	5.3%	17.8%	5.4%	7.4%	6.5%	6.1%	1.9%	3.8%
	Attempted 45+ Credits: Any Level	6.5%	18.4%	6.1%	20.7%	7.3%	11.5%	8.7%	7.1%	3.1%	5.3%
Student	Retained Fall & Winter	62.1%	88.8%	65.5%	88.9%	65.4%	90.5%	69.6%	90.9%	71.2%	85.7%
Retention	Retained Fall, Winter & Spring	48.3%	78.6%	52.6%	78.5%	44.9%	70.9%	55.0%	66.7%	31.2%	66.2%
	Retained into Following Fall	41.6%	73.5%	47.5%	70.4%	42.6%	62.2%	46.0%	59.6%	0.0%	0.0%
Time to	Completed in 2 Years	3.4%	8.2%	4.1%	13.3%	3.6%	8.8%	1.2%	2.0%	0.1%	0.0%
Completion	Completed in 3 Years	6.6%	24.5%	7.8%	23.0%	3.6%	8.8%	1.2%	2.0%	0.1%	0.0%
	Completed in 4 Years	8.2%	31.6%	7.8%	23.0%	3.6%	8.8%	1.2%	2.0%	0.1%	0.0%

*Non FYE (enrolled, not complete, never enrolled)

**FYE (completed first term, completed first year, completed after first year)

Programs with FYE

Program	Requirement	Category
Digital Media Communications AAS	ART, BA, COMM, CS, DMC, EFA, ENG, FYE , J, MUS, TA, WR	elective option
Early Childhood Education & Family Studies AAS	FYE-101	elective option
Educación infantil y estudios familiares AAS	FYE-101ES	core
Educación infantil y estudios familiares CC	FYE-101ES	core
Gerontology CC	FYE-101	elective option
Gerontology for Health Care Professionals CC	FYE-101	elective option
Horticulture AAS	FYE-101	core
Horticulture CC	FYE-101	core
Human Services Generalist AAS	ASL, CJA, COMM, ECE, ED, FR, FYE , GER, GRN, HD, HDF, HS, MA, MTH, PSY, SOC, SPN, WR, WS	elective option
Human Services Generalist CC	ASL, CJA, COMM, ECE, ED, FR, FYE , GER, GRN, HD, HDF, HS, MA, MTH, PSY, SOC, SPN, WR, WS	elective option
Landscape Management - Arboriculture Option AAS	FYE-101	core
Landscape Management AAS	FYE-101	core
Business EFA	FYE-101	core
Creative Arts, Communication and Humanities EFA	FYE-101	core
Health Professions EFA	FYE-101	core
Industrial Technical and Automotive EFA	FYE-101	core
Natural Resources EFA	FYE-101	core
Science, Technology, Engineering, and Math (STEM) EFA	FYE-101	core
Social Sciences, Human Services and Criminal Justice EFA	FYE-101	core
Teaching and Education EFA	FYE-101	core