Curriculum Committee Agenda

October 21, 2022 (8-9:30am)

	Presenter	Action
1. Welcome and Introductions	**Chair**	
2. Approval of Minutes	**Chair**	Approval
3. Consent Agenda a. Course Number Changes b. Course Title Change c. Reviewed Outlines for Approval	**Chair**	Approval
4. Course and Program Approvals a. **Program Amendments** a. AAS Nursing (RN) b. **Apprenticeship Changes** a. Amendments: Electrician Apprenticeship Technologies AAS and CC b. Course Inactivations: APR-125IE, 134IE, 135IE, 136IE, 145IE, 155IE, 165IE, 185IE, 235IE, 236IE, 237IE, 245IE, 255IE, 265IE, 275IE, 291IE, 292IE, 293IE, 294IE c. **Course Inactivations** a. HE-101, HE-103	 **Curriculum Office** **Dan LoFaro** **Tracy Nelson**	 Approval/23.SU Approval/22.SU Approval/23.SU Approval/23.SU
5. Old Business a.		
6. New Business a. Communication Related Instruction b. Review Teams/Sub-Committee process sharing	 **Amanda Coffey, Dustin Bare, Sarah Steidl** **Review Team Leads**	 Discussion Informational
7. Closing Comments a.		

Curriculum Committee Minutes

October 7, 2022 (8-9:30am)

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

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1. **Welcome & Introductions**
   a. Kerrie presented an overview of the Committee. This information included the mission of the Committee, a quick description of course reviews, general education and related instruction certification, and membership.

2. **Approval of Minutes**
   a. Approval of the June 3, 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. **Program Amendments**
      i. **AST Business**
         1. Curriculum Office presented for Bev Forney
         2. Remove BA-230 from the list of Business Electives. Effective for 22-23.
         3. CCC's BA-230 is Social Media Marketing, not Business Law. It was added to the program in error.
         4. In the process of renumbering BA-230 to be BA-270 to quell further confusion.
         5. Link to Major Transfer Map (MTM) on Oregon.gov: https://www.oregon.gov/highered/policy-collaboration/Pages/transfer-2998-implementation-resources.aspx
   Motion to approve, approved

5. **Old Business**
   a. Gen Ed Review Update
      i. Gen Ed Sub-Committee presented
      ii. The Gen Ed review team would like to expand their participation to non-committee members. Email communication will be sent to faculty at large to see who is interested in being part of this work.
      iii. What will our new processes look like in the future, especially once Curriculum Management (CIM) software is launched?
         1. Create a sub-committee that will focus on transitions. Include Curriculum Office and faculty.
         2. Offer support to Gen Ed faculty so that they are prepared to provide the needed information for General Education Certification
      iv. Reminder that there are courses approved last year that have not been approved as Gen Ed: ENG-243, ES-101, ES-211, ES-221, ES-241.
         1. These departments are working on transferability information.
   b. Review Membership Vacancies
      i. Deans are responsible for vacancies in their division

ii. Need a new TAPS Review Team Lead. Formerly the Associate Dean of TAPS, but Laura will not be filling this position.
iii. Need a new Related Instruction Review Team Lead. Formerly the Associate Dean of TAPS, but Laura will not be filling this position.

6. New Business

a. 2nd Writing Course for Associate of Science (AS) Degrees
   i. Eric Lee presented
   ii. AS degrees at CCC require WR-121 and a second writing course of either WR-122 or WR-227. The AS, Mechanical Engineering, PSU program does not have a second writing course. PSU accepts the 300-level Technical writing course only, not the 200-level course.
   iii. Is it possible to change the AS degree requirements at CCC?
      1. We will hold off on changing the degree requirements for now. The communications workgroup, as part of the Common Course Numbering (CCN) work, is looking at WR-227. Their goal is to align WR-227 with all of the community colleges and state schools. The CCN work might fix the AS degree issue.
      2. The CCN work should be close to complete by November 2022. This topic will come back for review in winter term.
   iv. Link to current AS degree requirements: https://catalog.clackamas.edu/associate-science-degrees-as/#studentguidetext
b. Courses Scheduled for Inactivation 23-24
   i. Curriculum Office presented
   ii. This is the 2nd of 3 reminders
   iii. These are courses that haven't been offered since 2020/SP.
   iv. To prevent inactivation, the course must be offered during the 22-23 year, OR JUST ASK US NOT TO INACTIVATE IT.
   v. The list is posted under Additional Documents and is updated frequently. The link will be included in the Curriculum Committee approval email today.
   vi. We have received responses from most departments already. If the course is marked "DONE" in the notes column you don't need to email us.
   vii. The 3rd and final reminder will be before the catalog deadline.
c. Courses Overdue and Due for Review
   i. Curriculum Office presented
   ii. Courses must be reviewed at least once every 5 years.
   iii. Courses last reviewed in 2016-2017 are due for review. Courses last reviewed prior to 2016-2017 are overdue for review. Please submit an outline even if there are no changes to the course.
   iv. The list is posted under Additional Documents and is updated frequently. The link will be included in the Curriculum Committee approval email today.
d. Review Teams/Sub-Committee process sharing
   i. Review Teams and Sub-Committees will briefly share info about their processes at the next meeting.

7. Closing Comments

a.

-Meeting Adjourned-

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

CONSENT AGENDA

October 21, 2022

1. Course Title Change

Course	Current Title	Proposed Title

2. Course Number Change

Course	Title	Proposed Course Number
BA-230	Social Media Marketing	BA-270

3. Outlines Reviewed for Approval

Course	Title	Implementation
ART-251	Ceramics/Hand-Building I	2023/WI
ART-254	Ceramics/Hand-Building II	2023/WI
BA-270	Social Media Marketing	2023/WI

Clackamas Community College

Online Course/Outline Submission System

Show changes since last approval in red Print Edit Delete Back
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Section #1 General Course Information

Department: Art

Submitter

First Name: Nora
Last Name: Brodnicki
Phone: 3036
Email: norab

Course Prefix and Number: ART - 251

 # 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: Ceramics/Hand-Building I

Course Description:

This course is a hand-building focused introduction to fundamental ceramic skills and clay experience to foster artistic growth. Students explore different methods of working with clay, including pinching, coiling, and slab construction and are introduced to glazing and firing methods. Students research the history of ceramics and its connection to culture and society.

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:

✓ Arts and Letters

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

No

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

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

No

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

No

Will this class use library resources?

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. create hand-built works in clay that demonstrate introductory techniques and materials; (AL1)
2. identify and describe ceramic works and their art and cultural historical styles; (AL2)
3. demonstrate group and self-critiquing skills; (AL1)
4. recognize standards of quality in design and technique; (AL1)
5. apply basic ceramic techniques, terminology and ideas;
6. apply artistic ideas using clay as the primary medium. (AL1)

AAOT/ASOT GENERAL EDUCATION OUTCOMES

AAOT/ASOT GENERAL EDUCATION OUTCOMES

COURSE OUTLINE MAPPING CHART

Mark outcomes addressed by the course:

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

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

WR: Writing Outcomes

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

S 1. Interpret and engage in the Arts & Letters, making use of the creative process to enrich the quality of life.

S 2. Critically analyze values and ethics within range of human experience and expression to engage more fully in local and global issues.

SS: Social Science Outcomes

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

2. Apply knowledge and experience to foster personal growth and better appreciate the diverse social world in which we live.

SC: Science or Computer Science Outcomes

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

2. Apply scientific and technical modes of inquiry, individually, and collaboratively, to critically examine the influence of scientific and technical knowledge on human society and the environment.

3. Assess the strengths and weaknesses of scientific studies and critically examine the influence of scientific and technical knowledge on human society and the environment.

CL: Cultural Literacy Outcome

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

Outcomes Assessment Strategies:

✓ Projects

✓ Pre-Post Assessment

:

Major Topic Outline:

1. Technical information: clay, glazes, materials, and firing methods.
2. Design and aesthetics: uses of material, design and aesthetic critiques.
3. Historical study of ceramics using books and internet sources.
4. Stimulation and development of creative processes during course projects, reinforced by verbal and written information.
5. Student Involvement in making ceramic works, loading kilns, glazing, clean up and research.

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

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

Percent of course: 0%

Section #2 Course Transferability

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

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

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

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

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

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

EOU= ART 260, U of O= ARTC 255, SOU= ART 255 and WOU= ART 255/ ART 256

How does it transfer? (Check all that apply)

✓ required or support for major

✓ general elective
:

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

✓ Other. Please explain.

I checked websites at the institutions

First term to be offered:

Specify term: WINTER

Clackamas Community College

Online Course/Outline Submission System

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

Section #1 General Course Information

Department: Art

Submitter

First Name: Nora
Last Name: Brodnicki
Phone: 3036
Email: norab

Course Prefix and Number: ART - 254

 # 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: Ceramics/Hand-Building II

Course Description:

This course continues the development of ceramic hand-building methods through the creation of functional and artistic forms to develop skills and clay experience and foster artistic growth. Students explore glazing and firing methods. Students research the history of ceramics and its connection to culture and society.

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:

✓ Arts and Letters

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

No

Are there prerequisites to this course?

Yes

Pre-reqs: ART-251 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?

✓ **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. create works in clay that demonstrate hand-building techniques and materials; (AL1)
2. identify and describe ceramic works and their art and cultural historical styles; (AL2)
3. demonstrate group and self-critiquing skills; (AL1)
4. recognize standards of quality in design and technique; (AL1)
5. apply ceramic techniques, terminology and ideas;
6. apply artistic ideas using clay as the primary medium. (AL1)

AAOT/ASOT GENERAL EDUCATION OUTCOMES

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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:

✓ Projects

✓ Thesis/Research Project

✓ Pre-Post Assessment

:

Major Topic Outline:

1. Technical information: clay, glazes, materials, and firing methods.
2. Design and aesthetics: uses of material, design and aesthetic critiques.
3. Historical study of ceramics using books and internet sources.
4. Stimulation and development of creative processes during course projects, reinforced by verbal and written information.
5. Student Involvement in making ceramic works, loading kilns, glazing, clean up and research.
6. Students individualize their focus and further develop their skills by focusing on a problem, idea or series of works.

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.

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	✓ SOU (Southern Oregon University)
✓ OSU (Oregon State University)	**✓ UO (University of Oregon)**
✓ OSU-Cascade	**✓ WOU (Western Oregon University)**

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

EOU= ART 260, U of O= ARTC 255, SOU= ART 255 and WOU= A 255/ A 256

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.

I checked websites for comparable courses

First term to be offered:

Specify term: Winter 2019

Clackamas Community College

Online Course/Outline Submission System

Show changes since last approval in red Print Edit Delete Back
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Section #1 General Course Information

Department: Business & Computer Science: Business

Submitter

First Name: Beverly
Last Name: Forney
Phone: X3115
Email: beverlyf

Course Prefix and Number: BA - 270

 # 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: Social Media Marketing

Course Description:

This is an introductory course that provides an overview of social media and its role in marketing. Nearly everything consumers do is tracked online and this level of marketing analytics is assisting organizations develop a better understanding of consumer and market needs and trends. This course will seek to develop an understanding to how social media compliments marketing.

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?

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?

Yes

Have you talked with a librarian regarding that impact?
Yes (A 'Yes' certifies you have talked with the librarian and have received approval.)*

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F or Pass/No Pass

Audit: No

When do you plan to offer this course?

✓ Summer
✓ Fall
✓ Winter
✓ Spring

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

Yes

Student Learning Outcomes:

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

1. develop a social media marketing plan for a new or existing product or service;
2. identify primary social media channels used by business, and describe the function of each channel to participate in decisions and discussions within marketing teams;
3. develop both proactive and reactive strategies to manage corporate/business messaging in a social media environment;
4. use terminology related to use of social media in a marketing context;
5. identify and respond to the legal/ethical issues associated with social media marketing;
6. use understanding of privacy and data integrity issues associated with social media to identify both personal and institutional data privacy threats and maintain both personal and institutional data integrity.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Social media management tools
2. Social media platforms
3. Social media and web site strategies for business marketing
4. Conducting a social media audit
5. Building a brand story with social media
7. Building a client-driven podcast
8. Video marketing
9. Social consciousness in social media marketing

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.

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

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

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

How does it transfer? (Check all that apply)

✓ **other (provide details)**: Business/Marketing elective

First term to be offered:

Next available term after approval
:

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

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

COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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

College:	**Clackamas Community College**	**Date**	

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

PROGRAM INFORMATION

APPROVED **Program Title** *(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)*	*APPROVED* **CIP Code (Include 7th & 8th digits used for OCCURS reporting.)** *6-digit CIP*	*7th digit*	*8th digit*	*APPROVED* **Recognition Award**	**Current Credits**
AAS Title: Nursing (RN) AAS.NURING, NA.PRENURSE	**51.3801**			√ **Statewide AAS (90-108 credits)**	**90-93**
Option Title**				☐ *OPTION* **to AAS Degree**	
Certificate Title: *Within* **AAS Degree? ☐ Yes** ☐ No**				☐ **Certificate of Completion**	

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

Last amendment approved on 02.04.22

TYPE OF PROGRAM AMENDMENT
(Check **ALL** That Apply)

☐ **New Program++** ☐ **Title Change for Program**	☐ **Curriculum Revision**	☐ **Revision in Program Credits** *Proposed* **Total Credits:**
Proposed **AAS Title:**		
Proposed **OPTION Title:**		
Proposed **Certificate Title:**		
☐ *SUSPENSION* **of Program**	*Reason for Suspension:*	
Suspension Effective Date:		

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

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				*PROPOSED CURRICULUM 23-24*			
Course Number	**Course Title**	**Clock Hours**	**Credits**	**Course Number**	**Course Title**	**Clock Hours**	**Credits**
First Term							
BI-112* Or Biology with genetics	General Biology for Health Sciences Biology with Genetics	66-77	4-5				
NRS-110	Foundations of Nursing - Health Promotion	55	5				
NRS-110C	Foundations of Nursing - Health Promotion Clinical	120	4				
NRS-230	Clinical Pharmacology I	33	3				
PE-185**	**Physical Education**	**33**	**1**				
Second Term							
NRS-111	Foundations of Nursing in Chronic Illness I	33	3				
NRS-111C	Foundations of Nursing in Chronic Illness I Clinical	90	3				
NRS-231	Clinical Pharmacology II	33	3				
NRS-232	Pathophysiological Processes I	33	3				
Third Term							
NRS-112	Foundations of Nursing in Acute Care I	22	2				
NRS-112C	Foundations of Nursing in Acute Care I Clinical	120	4				
NRS-233	Pathophysiological Processes II	33	3				
--	Arts & Letters, Social Science or Natural Science electives, if needed		3				
Summer Term Option							
BI-112* Or Biology with Genetics	General Biology for Health Sciences or Biology with Genetics	66	4-5				
Fourth Term							
NRS-222	Nursing in Acute Care II & End of Life	44	4				
NRS-222C	Nursing in Acute Care II & End of Life Clinical	150	5				
--	Arts & Letters, Social Science or Natural Science electives, if needed		6				
Fifth Term							
NRS-221	Chronic Illness II and End of Life	44	4				

NRS-221C	Chronic Illness II and End of Life Clinical	150	5				
--	Arts & Letters, Social Science or Natural Science electives, if needed		6				
Sixth Term							
NRS-224	Integrative Practicum	22	2				
NRS-224C	Integrative Practicum Clinical	210	7				
WR-222*** Or WR-227	English Composition or Technical Report Writing	44	4				
--	Arts & Letters, Social Science or Natural Science electives, if needed		4				

Catalog Notes	
*BI-112 meets the Biology with genetics requirement and must be completed prior to start of second year of nursing program.	
**Current Basic Life Support (AHA) is required throughout the nursing program and meets PE requirement.	
***Required only if 8 credit writing requirement not previously met.	
• Students must achieve C or higher grades in all required courses (including prerequisites/preparatory courses) prior to advancing to the next term. • Core curriculum is sequential and may not be taken out of order. Core nursing curriculum is intended to be completed in two academic years for an AAS degree.	
Approved Courses to Meet Prerequisite/Elective Credit Requirements for the Nursing Program	
NOTE: All electives must be taken at the 100 level or higher unless otherwise noted.	
Humanities (Arts & Letters)	
Courses used in this area must be at least three credits. Select courses with a prefix of: ASL, FR, GER, SPN (other world languages are accepted; languages must be 200 level) ART, DMC, ENG, HUM, J, MUP, MUS, PHL, R, TA COMM (courses numbered COMM-126 and above) WR (except WR-101, 121, 122, or 227)	
Social Science	
Courses used in this area must be at least three credits. Select courses with a prefix of: ANT, EC, GEO, HST, PS, PSY, SOC, SSC, WS	
Natural Sciences (Science/Math/Computer Science)	
Courses used in this area must be at least six credits. Select courses with a prefix of: ASC, BI (except BI-160, BI-163, BI-165C), CH (except CH-150), CS, ESR, G, GS, MTH (MTH-095 accepted), PH, Z	

Nursing					
NUR-160	Fluid and Electrolytes	22	2	Remove. Scheduled for Inactivation 06.30.23	
TOTAL *CURRENT* CREDITS:			90-93	**TOTAL *PROPOSED* CREDITS:**	

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

Program Amendments

October 21, 2022

Program	Implementation
Electrician Apprenticeship Technologies AAS	2022/SU
Electrician Apprenticeship Technologies CC	2022/SU

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

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

COMMUNITY COLLEGE PROGRAM AMENDMENT FORM

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

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Current instructions, forms, handouts and other useful resources are located at
http://www.ode.state.or.us/search/results/?id=231

College:	**Clackamas Community College**	**Date**	

CAREER LEARNING AREA

☐ **Ag, Food & Natural Resource Systems**	☐ **Health Services**
☐ **Arts, Information & Communications**	☐ **Human Resources**
☐ **Business & Management**	x **Industrial & Engineering Systems**

PROGRAM INFORMATION

APPROVED **Program Title** *(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)*	*APPROVED* **CIP Code** (Include 7th & 8th digits used for OCCURS reporting.) *6-digit CIP*	*7th digit*	*8th digit*	*APPROVED* **Recognition Award**	**Current Credits**
Parent Program **Electrician Apprenticeship Technologies SAAS**	**46.0301**	**I**	*	☐**Statewide AAS (90-108 credits)**	**90-94**
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**			☐	
Related Certificates: Limited License Electrician Apprenticeship Technologies SCPC				☐	

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

Last amendment approved on 4/15/22

TYPE OF PROGRAM AMENDMENT

(Check **ALL** That Apply)

New Program++ **Title Change for Program**	**Curriculum Revision**	☐ **Revision in Program Credits** *Proposed* **Total Credits:**
Proposed **AAS Title:**		
Proposed **OPTION Title:**		
Proposed **Certificate Title:**		
☐ *SUSPENSION* **of Program**	*Reason for Suspension:*	
Suspension Effective Date:		

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

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				*PROPOSED CURRICULUM 23-24*			
Course	**Title**	**Hours**	**Credits**	**Course**	**Title**	**Hours**	**Credits**
APR000	Apprenticeship-Credit for Prior Certification		22				
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		12-6	REMOVE			
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		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		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		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		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		30-24				
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				
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:			90-94	**TOTAL *PROPOSED* CREDITS:**			
PTE Dean Signature	Armetta Burney (via email)			**Date**	**10/10/22**		

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

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

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

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College:	**Clackamas Community College**	**Date**	

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

PROGRAM INFORMATION

APPROVED **Program Title** *(For Official Program Title, refer to your directory at http://www.ode.state.or.us/search/results/?id=232)*	*APPROVED* **CIP Code** (Include 7th & 8th digits used for OCCURS reporting.) *6-digit CIP*	*7th digit*	*8th digit*	*APPROVED* **Recognition Award**	**Current Credits**
Parent Program	46.0301	I	*	☐Statewide AAS (90-108 credits)	
Apprenticeship Area: ~~Inside Electrician (IE)~~ **Limited Energy (LE)**	~~CC.ELECTRICIANIE~~ CC.ELECTRICIANLE			☐	
Certificate: Electrician Apprenticeship Technologies SCC1				**☐SCC1 (45-60 credits)**	**45-59**

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

Last amendment approved on 4/15/22

TYPE OF PROGRAM AMENDMENT
(Check **ALL** That Apply)

New Program++ **Title Change for Program**	**Curriculum Revision**	☐ **Revision in Program Credits** *Proposed* **Total Credits:**	
Proposed **AAS Title:**			
Proposed **OPTION Title:**			
Proposed **Certificate Title:**			
☐ *SUSPENSION* **of Program**	*Reason for Suspension:*		
Suspension Effective Date:			

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

CURRICULUM AMENDMENT

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

CURRENT CURRICULUM 22-23				*PROPOSED CURRICULUM 23-24*			
Course	**Title**	**Hours**	**Credits**	**Course**	**Title**	**Hours**	**Credits**
APR1000	**Computation Related Instruction**		3-5				
APR2000	**Communication Related Instruction**		3-4				
APR3000	**Human Relations Related Instruction**		3-4				
APRIE000	Apprenticeship-Inside Electrician (IE)		46				
APR-125IE	DC Theory	36	3	REMOVE			
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:			45-59	**TOTAL *PROPOSED* CREDITS:**			

College Contact	Daniel LoFaro	**Telephone No.**	
E-Mail Address		**Fax No.**	
Chief Academic Officer *or* PTE Dean Signature	Armetta Burney (via email)	**Date**	**10/10/22**

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Clackamas Community College

Course Inactivations

October 21, 2022

Course Number	Title	Implementation
APR-125IE	DC Theory	2023/SU
APR-134IE	Residential Wiring I	2023/SU
APR-135IE	Residential Wiring II	2023/SU
APR-136IE	Electrical Design I	2023/SU
APR-145IE	Grounding & Bonding	2023/SU
APR-155IE	Motors & Transformers	2023/SU
APR-165IE	AC Theory	2023/SU
APR-185IE	Electrical Systems	2023/SU
APR-235IE	Special Installations	2023/SU
APR-236IE	Motors & Controls	2023/SU
APR-237IE	Electrical Design II	2023/SU
APR-245IE	NEC Analysis I	2023/SU
APR-255IE	NEC Analysis II	2023/SU
APR-265IE	NEC Analysis III	2023/SU
APR-275IE	NEC Analysis IV	2023/SU
APR-291IE	National Electrical Code (NEC) Exam	2023/SU
APR-292IE	National Electrical Code (NEC) Exam	2023/SU
APR-293IE	National Electrical Code (NEC) Exam	2023/SU
APR-294IE	National Electrical Code (NEC) Exam	2023/SU

Clackamas Community College

Online Course/Outline Submission System

☐ Show changes since last approval in red Print Edit Delete Back

Date approved: December 3, 2021 Certified General Education Area(s): None

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 125IE

 # Credits: 3

Contact hours

Lecture (# of hours): 36
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 36

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: DC Theory

Course Description:

Understanding DC Theory including atom's structures, static electricity, magnetism, resisters, series and parallel circuits as well as combination circuits. 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): Electrician Apprenticeship Technologies AAS and CC

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

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

Yes

Recommendations:

Requirements: Student Petition

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

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F Only

Audit: No

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

No

Student Learning Outcomes:

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

1. apply ohms law to series and parallel circuits,
2. identify the different structures of an atom and how it relates to electricity,
3. describe magnetism polarity and lines of force,
4. analyze series circuits,
5. analyze parallel circuits,
6. analyze combination circuits,
7. illustrate Kirchhoff's laws,
8. illustrate Theremin theorem.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Atom structures.
2. Ohms law.
3. Magnetism.
4. Series circuits.
5. Parallel circuits.
6. Combo circuits.
7. Kirchhoff's law.
8. Theremin theorem.

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 Print Edit Delete Back

Date approved: December 3, 2021 Certified General Education Area(s): None

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 134IE

 # Credits: 3

Contact hours

Lecture (# of hours): 36
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 36

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: Residential Wiring I

Course Description:

The focus is on the fundamentals of electrical installations in residential; based on the National Electrical Code (NEC) and Oregon Electrical Specialty Code (OESC). 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): Electrician Apprenticeship Technologies AAS and CC

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

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

Yes

Recommendations:

Requirements: Student Petition.

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

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F Only

Audit: Yes

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

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 personal protective equipment (PPE) for the job,
2. identify potential safety hazards in residential construction,
3. solve blueprint layout using architects scale,
4. define electrical print symbols,
5. explain outlet location and mounting height,
6. explain the NEC requirements for conductor sizing,
7. design outlet layout for living room and bedrooms,
8. identify grounded and grounding conductor,
9. demonstrate how to wire switches,
10. describe the operations of GECI and AGCI,
11. differentiate IC versus non IC.
12. discuss and understand basic service requirements.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Mitigate construction hazards with proper PPE.
2. Read residential prints.
3. Layout outlets in living room and bedrooms.
4. GECI and AGCI.
6. Switch optics and how to wire each option.
7. Grounded and grounding.

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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Date approved: December 3, 2021 Certified General Education Area(s): None

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 136IE

 # Credits: 3

Contact hours

Lecture (# of hours): 36
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 36

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: Electrical Design I

Course Description:

Provides design criteria for single family and multifamily dwelling as well as outbuilding, by using the National Electric Code (NEC) and Oregon Specialty Electrical Code (OESC) to design and calculate electrical service and other aspects of a residence. 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): Electrician Apprenticeship Technologies AAS and CC

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

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

Yes

Recommendations:

Requirements: Student Petition.

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

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F Only

Audit: No

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

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 service size for single family,
2. identify proper service size for multi-family,
3. apply the proper demand to appliances,
4. determine the grounding requirement,
5. compare standard versus optional calculations,
6. design circuit for a residence,
7. demonstrate a proficiency in all aspects of residential electrical design.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Residential calculations using the NEC and OESC.
2. Cooking equipment requirements.
3. Standard & optional residential calcuations.
4. Designing systems in a residence.
5. Proper grounding and bonding of residences.
6. Designing service for outbuildings.
7. Proper circuit sizing.

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 Print Edit Delete Back

Date approved: December 3, 2021 Certified General Education Area(s): None

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 145IE

 # Credits: 3

Contact hours

Lecture (# of hours): 36
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 36

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: Grounding & Bonding

Course Description:

Discusses what grounding is and its proper terms. It also discusses why effective grounding is needed and how effective grounding can be made a part of the electrical system. 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): Electrician Apprenticeship Technologies AAS and CC

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

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

Yes

Recommendations:

Requirements: Student Petition.

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

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F Only

Audit: No

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

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 various faults and the stresses caused,
2. explain the purpose of a grounding electrode system and how to size the conductor,
3. explain why systems and circuits are grounded,
4. calculate the minimum size grounded conductor and main bond jumper,
5. demonstrate how to size and bond equipment and enclosures,
6. identify a separately derived system and its grounding requirements,
7. explain the requirements regarding grounding two or more buildings.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Orientation, grounding Article 250.
2. Grounding, safety and the electrode system.
3. Faults, grounding electrode systems(GES).
4. Installing grounding electrode system.
5. Grounded conductor.
6. Equipment grounding conductor, equipment and enclosure bonding.
7. Equipment and enclosure grounding.
8. Separately derived systems, grounding and bonding.
9. Two or more buildings, grounding and bonding.
10. Bonding: main bonding jumper, supply side bonding jumper, bonding versus grounding.

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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Date approved: December 3, 2021 Certified General Education Area(s): None

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 155IE

 # Credits: 3

Contact hours

Lecture (# of hours): 36
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 36

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: Motors & Transformers

Course Description:

Covers basic generator, AC and DC motor and transformer construction and theory, as well as calculations involving motors and transformers. Practical use of the NEC will be introduced. 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): Electrician Apprenticeship Technologies AAS and CC

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

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

Yes

Recommendations:

Requirements: Student Petition.

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

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F Only

Audit: No

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

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 different types of motors,
2. properly size motor circuits and motor over current protection,
3. demonstrate the ability to properly hook up and operate a magnetic starter with a stop-start station,
4. demonstrate the ability to properly size and protect transformer windings,
5. explain emergency, standby, and legally required standby circuitry;
6. use the national electric code to properly install motor and generator and transformers.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Orientation, Generator Theory.
2. Generator Code per NEC.
3. Transformer Theory.
4. Transformer Code per NEC.
5. Midterm.
6. Motor Theory.
7. Overcurrent and locked rotor per NEC.
8. Motor overload protection, motor branch circuit calculations.
9. Control circuits and connecting of simple controls.

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

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

Percent of course: 0%

First term to be offered:

Next available term after approval
:

Clackamas Community College

Online Course/Outline Submission System

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Date approved: December 3, 2021 Certified General Education Area(s): None

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 165IE

 # Credits: 3

Contact hours

Lecture (# of hours): 36
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 36

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: AC Theory

Course Description:

Understand AC Theory, Basic Trigonometry and vectors. Understand inductance in AC circuits and resistance-inductive series and parallel circuits. AC circuits containing capacitors. 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): Electrician Apprenticeship Technologies AAS and CC

Are there prerequisites to this course?

Yes

Pre-reqs: APR-125IE

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 Only

Audit: No

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

No

Student Learning Outcomes:

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

1. apply Pythagorean theorem,
2. demonstrate the ability to use sine, cosine and tangents to solve problems;
3. evaluate the advantages of AC,
4. define the skin effect in AC circuits,
5. estimate inductive reactance in AC circuits,
6. explain current wattage in an AC circuit,
7. discuss capacitors and how they affect AC circuit,
8. explain power factor,
9. illustrate voltage drop in an AC circuit.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Pythagorean Theorem.
2. Sine, cosine and tangents.
3. AC waveforms.
4. AC resistive loads.
5. Inductive reactance.
6. Voltage and current relationship in inductive circuits.
7. Impedance.
8. Voltage drop across resistors.
9. Capacitors.

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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Date approved: December 3, 2021 Certified General Education Area(s): None

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 185IE

 # Credits: 3

Contact hours

Lecture (# of hours): 36
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 36

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: Electrical Systems

Course Description:

This course will illustrate different electrical systems from branch circuits and feeders to electrical services. The National Electrical Code (NEC) NFPA 70 requirements for equipment will also be covered in this course. 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): Electrician Apprenticeship Technologies AAS and CC

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

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

Yes

Recommendations:

Requirements: Student Petition.

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

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F Only

Audit: No

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

No

Student Learning Outcomes:

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

1. explain how to properly employ the National Electric Code,
2. explain the difference between branch circuits and feeders,
3. explain the different aspects of electrical services,
4. identify proper conductor size and overcurrent protection,
5. explain the difference between ground fault and short circuit and their effects on electrical systems,
6. explain the various electrical wiring methods,
7. identify the different equipment for general use and the NEC requirements for each.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Using the NEC.
2. Branch circuits and feeders.
3. Electrical services.
4. Conductors and overcurrent protection.
5. Wiring methods and requirements.
6. Wire materials–raceways and boxes.
7. Wire materials–switchgear and panel boards.
8. Equipment for general use.

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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Date approved: December 3, 2021 Certified General Education Area(s): None

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 235IE

 # Credits: 3

Contact hours

Lecture (# of hours): 36
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 36

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: Special Installations

Course Description:

Covers special occupancies, special equipment, special conditions as they pertain to the National Electric Code and Oregon Specialty Code (OESC) it will also touch on communication systems. 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): Electrician Apprenticeship Technologies AAS and CC

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

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

Yes

Recommendations:

Requirements: Student Petition.

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

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F Only

Audit: No

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

No

Student Learning Outcomes:

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

1. define the breakdown of hazardous locations,
2. describe appropriate safety measure for hazardous locations,
3. outline the different aspects of patient care area in hospitals,
4. discuss the required wiring methods in hospital,
5. identify wiring methods for different places of assembly,
6. identify wiring methods for special equipment, including elevators, solar, wind systems;
7. describe the difference in emergency, legal and optional systems,
8. identify the communication systems.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. NEC special occupancies.
2. NEC special equipment.
3. NEC special condition.
4. NEC communications.
5. Hazardous locations.
6. Hospitals.
7. Elevators.
8. Solar.
9. Wind.
10. Electric car chargers.
11. Communication systems.
12. Wiring Hierarchy.

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 Print Edit Delete Back

Date approved: May 1, 2020 Certified General Education Area(s): None

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 236IE

 # Credits: 3

Contact hours

Lecture (# of hours): 36
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 36

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: Motors & Controls

Course Description:

This course is the first of two classes that covers how to properly design and install motor circuits and controls per NEC Article 430, including understanding basic field-installed control devices, push button controls, timers, relays, and working with ladder diagrams. 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): Electrician Apprenticeship Technologies AAS and CC

Are there prerequisites to this course?

Yes

Pre-reqs: APR-236IEL

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 Only

Audit: Yes

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

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 components of motor circuits,
2. identify components of motor controls,
3. properly size motor circuits per NEC Article 430,
4. draw ladder diagrams,
5. explain how motor controls work,
6. explain how to wire basic motor controls.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. identify components of motor circuits,
2. identify components of motor controls,
3. properly size motor circuits per NEC Article 430,
4. draw ladder diagrams,
5. explain how motor controls work,
6. explain how to wire basic motor controls,
7. trouble shoot basic motor controls.

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

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

Percent of course: 0%

First term to be offered:

Next available term after approval
:

Clackamas Community College

Online Course/Outline Submission System

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Date approved: December 3, 2021 Certified General Education Area(s): None

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 237IE

 # Credits: 3

Contact hours

Lecture (# of hours): 36
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 36

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: Electrical Design II

Course Description:

Provides design criteria for commercial and industrial electrical, by using the National Electric Code (NEC) and Oregon Specialty Code (OESC). To design and calculate service as well as other aspects of commercial and industrial electrical installations. 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): Electrician Apprenticeship Technologies AAS and CC

Are there prerequisites to this course?

Yes

Pre-reqs: APR-136IE

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 Only

Audit: No

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

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 service size for commercial projects,
2. identify proper service size for industrial projects,
3. apply proper demand to restaurant kitchen equipment,
4. determine grounding and bonding requirements,
5. compare standard versus optional calculations,
6. understand voltage drop in branch circuits,
7. understand HVAC and other air handing systems,
8. understand freezers and coolers and other compressor loads,
9. design circuits for industrial equipment,
10. determine equipment load and NEC requirements for disconnect and overcurrent protection,
11. design service and distribution systems for a commercial as well as industrial building.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Commercial calculations using NEC and OESC.
2. Industrial calculations using NEC and OESC.
3. Standard versus optional calculation.
4. Proper grounding and bonding in commercial and industrial.
5. HVAC and other air handling systems.
6. Welders circuits.
7. Restaurant design.
8. Manufacturing plants-design and layout.

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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Date approved: December 3, 2021 Certified General Education Area(s): None

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 245IE

 # Credits: 3

Contact hours

Lecture (# of hours): 36
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 36

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: NEC Analysis I

Course Description:

This course teaches how the National Electrical Code (NEC) NFPA 70 is arranged, covering its introduction, chapters, articles, parts, and sections. The student will learn to navigate and understand the relationship each part of the Code has to the other parts and will develop an in-depth comprehension of the verbiage and layout of the NEC to become adept at using the Code. 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): Electrician Apprenticeship Technologies AAS & CC

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

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

Yes

Recommendations:

Requirements: Student Petition.

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

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F Only

Audit: Yes

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

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 the different chapters of the NEC,
2. identify in which chapter an article can be located,
3. explain how the different chapters work together,
4. demonstrate the ability to maneuver through the NEC to find answers to questions about electrical installations,
5. use the contents and index to navigate the NEC,
6. identify specific areas of an article to locate answers.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Orientation, NEC introduction
2. Wiring and protection.
3. Wiring methods and materials.
4. Equipment for general use.
5. Special occupancies.
6. Special equipment.
7. Special conditions.
8. Communication systems.

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

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

Percent of course: 0%

First term to be offered:

Next available term after approval
:

Clackamas Community College

Online Course/Outline Submission System

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Date approved: December 3, 2021 Certified General Education Area(s): None

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 255IE

 # Credits: 3

Contact hours

Lecture (# of hours): 36
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 36

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: NEC Analysis II

Course Description:

This course takes an in-depth look at Chapters 1-3 of the National Electrical Code (NEC) NFPA 70 and incorporates Oregon and Washington rules and statutes. 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): Electrician Apprenticeship Technologies AAS & CC

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

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

Yes

Recommendations:

Requirements: Student Petition.

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

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F Only

Audit: Yes

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

No

Student Learning Outcomes:

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

1. explain working clearances,
2. identify the general definitions of the NEC,
3. identify the different wiring methods,
4. describe the installation requirements of branch circuits,
5. calculate service size,
6. explain installation requirements for feeders,
7. explain the different aspects of grounding,
8. explain the NEC requirements for receptacles,
9. explain where Oregon and Washington rules supersede the NEC.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Sizing, ground fault, and short circuit protection.
2. Working clearances around electrical equipment.
3. Requirements for GFCI protection.
4. Sizing electrical services in multiple building types.
5. Sizing and grounding electrode conductors and systems.
6. Designing branch circuits and feeders.
7. Installation criteria for different wiring methods.

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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Date approved: December 3, 2021 Certified General Education Area(s): None

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 265IE

 # Credits: 3

Contact hours

Lecture (# of hours): 36
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 36

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: NEC Analysis III

Course Description:

This course takes an in-depth look at Chapters 4 and 5 of the National Electrical Code (NEC) NFPA 70. Oregon OAR 918 and ORS 479 as well as Washington RCW 19.28 and WAC 296-46B will be covered in this course. 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): Electrician Apprenticeship Technologies AAS & CC

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

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

Yes

Recommendations:

Requirements: Student Petition.

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

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F Only

Audit: Yes

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

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 how flexible cords are utilized in electrical installations,
2. discuss the different types of switches and installation requirements,
3. explain the requirement of luminaire installation,
4. design motor circuits,
5. design transformer installations,
6. discuss hazardous locations,
7. explain installation demands of a health care facility,
8. identify wiring methods in places of assembly.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Cords, switches, and receptacles.
2. Luminaires and lighting systems.
3. Appliances and heating equipment.
4. Motors, motor circuits, and controllers.
5. Air conditioning and refrigeration.
6. Transformers, phase converters, capacitors, and batteries.
7. Hazardous locations.
8. Health care facilities.
9. Places of assembly.
10. Recreational facilities and marinas.

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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Date approved: December 3, 2021 Certified General Education Area(s): None

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 275IE

 # Credits: 3

Contact hours

Lecture (# of hours): 36
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 36

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: NEC Analysis IV

Course Description:

This course takes an in-depth look at Chapters 6 - 8 of the National Electrical Code (NEC) NFPA 70 as well as Oregon Administrative Rules (OARs) and Washington Administrative Code (WAC). Test-taking procedures and preparation for journey-level electrical exam are emphasized. 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): Electrician ApprenticeshipTechnologies AAS and CC

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

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

Yes

Recommendations:

Requirements: Student Petition.

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

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F Only

Audit: Yes

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

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 the different requirements for electric signs,
2. explain the requirements for elevators, escalators, and chair lifts;
3. design feeders supplying electric vehicle spaces,
4. identify the requirements of welding equipment,
5. explain the different aspects of wiring a swimming pool or hot tub,
6. outline the requirements of solar photovoltaic systems,
7. identify the difference between emergency systems, legally-required systems, and optional standby systems;
8. describe the different types of communication systems.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Wiring requirements of signs.
2. Wiring requirements of elevators and walkways.
3. Size feeders for welders.
4. Low voltage wiring types and methods.
5. Solar voltaic and wind systems.
6. Emergency systems.
7. Utility interconnection of systems.
8. Communication systems.
9. Journey-level test prep.
10. Oregon and Washington rules and standards.

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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Date approved: January 21, 2022 Certified General Education Area(s): None

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 291IE

 # Credits: 3

Contact hours

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

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

Course Title: National Electrical Code (NEC) Exam Preparation I

Course Description:

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

Type of Course: Career Technical Apprenticeship

Can this course be repeated for credit in a degree?

No

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

No

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

No

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

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

Yes

Recommendations:

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

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

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F Only

Audit: Yes

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

No

Student Learning Outcomes:

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

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

This course does not include assessable General Education outcomes.

Major Topic Outline:

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

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

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

Percent of course: 0%

First term to be offered:

Next available term after approval
:

Clackamas Community College

Online Course/Outline Submission System

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Date approved: January 21, 2022 Certified General Education Area(s): None

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 292IE

 # Credits: 3

Contact hours

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

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

Course Title: National Electrical Code (NEC) Exam Preparation II

Course Description:

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

Type of Course: Career Technical Apprenticeship

Can this course be repeated for credit in a degree?

No

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

No

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

No

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

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

Yes

Recommendations:

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

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

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F Only

Audit: No

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

No

Student Learning Outcomes:

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

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

This course does not include assessable General Education outcomes.

Major Topic Outline:

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

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

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

Percent of course: 0%

First term to be offered:

Next available term after approval
:

Clackamas Community College

Online Course/Outline Submission System

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Date approved: January 21, 2022 Certified General Education Area(s): None

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 293IE

 # Credits: 3

Contact hours

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

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

Course Title: National Electrical Code (NEC) Exam Preparation III

Course Description:

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

Type of Course: Career Technical Apprenticeship

Can this course be repeated for credit in a degree?

No

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

No

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

No

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

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

Yes

Recommendations:

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

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

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F Only

Audit: Yes

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

No

Student Learning Outcomes:

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

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

This course does not include assessable General Education outcomes.

Major Topic Outline:

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

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

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

Percent of course: 0%

First term to be offered:

Next available term after approval
:

Clackamas Community College

Online Course/Outline Submission System

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Date approved: January 21, 2022 Certified General Education Area(s): None

Section #1 General Course Information

Department: Apprenticeship

Submitter

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

Course Prefix and Number: APR - 294IE

 # Credits: 3

Contact hours

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

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

Course Title: National Electrical Code (NEC) Exam Preparation IV

Course Description:

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

Type of Course: Career Technical Apprenticeship

Can this course be repeated for credit in a degree?

No

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

No

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

No

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

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

Yes

Recommendations:

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

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

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F Only

Audit: Yes

When do you plan to offer this course?

✓ Not every term

Is this course equivalent to another?

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

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

No

Student Learning Outcomes:

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

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

This course does not include assessable General Education outcomes.

Major Topic Outline:

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

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

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

Percent of course: 0%

First term to be offered:

Next available term after approval
:

Course Inactivations

October 21, 2022

Course Number	Title	Implementation
HE-101	NCSF Certified Personal Trainer Exam	2023/SU
HE-103	NCSF Certified Sports Nutrition Exam	2023/SU

Clackamas Community College

Online Course/Outline Submission System

Print Edit Delete Back

Date approved: October 21, 2016 Certified General Education Area(s): None

Section #1 General Course Information

Department: HLPE

Submitter

First Name: Tracy
Last Name: Nelson
Phone: X3274
Email: tracyn

Course Prefix and Number: HE - 101

 # Credits: 0

Contact hours

Lecture (# of hours): 3
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 3

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: NCSF Certified Personal Trainer Exam

Course Description:

Students will take the National Council on Strength and Fitness (NCSF) exam at Clackamas Community College to become certified as a Certified Personal Trainer. Students with a test score of 70% or better will receive their certification from the NCSF. Required: Student Petition.

Type of Course: Career Technical Supplementary

Reason for the new course:

We want to give students the opportunity to become certified personal trainers as they are completing the Fitness Technology program. Having the exam on campus will be more convenient for students.

Can this course be repeated for credit in a degree?

No

What is the target audience/industry for this class?

Fitness Technology Students

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: HE-201

Requirements: Student Petition

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

No

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

Yes

Area: Physical Education/Health

GRADING METHOD:

Non-graded

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?

Yes

Student Learning Outcomes:

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

1. utilize the principles learned to train clients in their career field;
2. demonstrate proper technique for fitness training at all levels;
3. administer various assessments, testing and workouts for clients.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Multiple choice exam administered from the NCSF to receive a Personal Training certification.

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

1. Increased energy efficiency	**No**
2. Produce renewable energy	**No**
3. Prevent environmental degradation	**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

Print Edit Delete Back

Date approved: October 21, 2016 Certified General Education Area(s): None

Section #1 General Course Information

Department: HLPE

Submitter

First Name: Tracy
Last Name: Nelson
Phone: X3274
Email: tracyn

Course Prefix and Number: HE - 103

 # Credits: 0

Contact hours

Lecture (# of hours): 3
Lec/lab (# of hours):
Lab (# of hours): 3
Total course hours: 6

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: NCSF Certified Sports Nutrition Exam

Course Description:

Students will take the National Council on Strength and Fitness (NCSF) exam at Clackamas Community College to become certified as a Certified Sports Nutritionist. Students with a test score of 70% or better will receive their certification from the NCSF. Required: Student Petition.

Type of Course: Career Technical Supplementary

Reason for the new course:

We want to give students the opportunity to take the certification exam on campus for our students in the Fitness Technology program for convenience.

Can this course be repeated for credit in a degree?

No

What is the target audience/industry for this class?

Fitness Technology Students

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: HE-223

Requirements: Student Petition

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

No

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

Yes

Area: Physical Education/Health

GRADING METHOD:

Non-graded

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?

Yes

Student Learning Outcomes:

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

1. apply learned techniques to create a successful nutrition plan for a client;
2. summarize the importance of nutrition and athletic performance;
3. utilize their certification to enhance employment in their career field.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Take a multiple choice exam through the NCSF to become a Certified Sports Nutritionist at Clackamas Community College.

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
:

WR-101 Communication Skills: Occupational Writing

Develops basic modes of technical writing, including summaries, process analysis, instructions, and reports.

WR-121 English Composition

Introduces the academic essay. Students learn to use a writing process, from brainstorming to polishing, as they develop original responses to challenging articles and academic essays. The class emphasizes information literacy: how to find and evaluate source material, as well as integrate and cite it.

Key differences	Other topics
• Types of reading • Type of writing assignments • Gen Ed and IL outcomes • Document design • Audience/purpose	• 4 credits v 3 credits • Course #s are not intuitive • Transfer concerns • Diversity of students in classroom