pcc.edu/programs/apprenticeship/

CAREER AND PROGRAM DESCRIPTION

Portland Community College provides courses in accordance with the Apprenticeship and Training Laws for the State of Oregon. These courses present technical instruction for the trades and are intended to complement on-the-job skills for both men and women. Each apprentice able trade has a Joint Apprenticeship and Training Committee (JATC) which outlines the procedures to become a journey person. This outline usually consists of two to five years of supervised, on-the-job experience in various aspects of the trade in conjunction with PCC course work. The JATC committees outline the type of supportive courses needed to prepare students to become qualified journey persons in addition to working with related training courses.

Consult the Apprenticeship and Trades Department for assistance in program planning and transcript evaluation. It is recommended to have your graduation petition and transcript evaluation approved by an Apprenticeship and Trades Department advisor prior to filing your petition.

Students wanting to move into management, supervision, or small business management can transfer to Oregon Institute of Technology (OIT) with related-training credits toward a Bachelor of Science (BS) in Operations Management after earning an Apprenticeship AAS degree.

DEGREES AND CERTIFICATES OFFEREDASSOCIATE OF APPLIED SCIENCE DEGREE

Construction Trades, General Apprenticeship Electrician Apprenticeship Technologies Industrial Mechanics and Maintenance Technology Apprenticeship

CERTIFICATE OF COMPLETION

Construction Trades, General Apprenticeship Electrician Apprenticeship Technologies Industrial Mechanics and Maintenance Technology Apprenticeship Limited Electrician Apprenticeship Technologies Manual Trades Apprenticeship Mechanical Maintenance Apprenticeship

CAREER PATHWAY CERTIFICATE

Apprenticeship and Trades: Pre-Trade Pathway
Apprenticeship and Trades: Pre-Trades for Advanced Manufacturing

JOURNEY LEVEL LICENSE RENEWAL

PCC's Apprenticeship and Trades Department is an approved training agent for continuing education for journey level electrical license renewal through the State of Oregon Electrical Licensing Division.

PRE-APPRENTICESHIP

PCC provides Pre-Apprenticeship opportunities to students seeking careers in the trades or an apprenticeship. These courses prepare students to apply for an apprenticeship, meet the minimum entry qualifications, and possibly boost your application score. Women and minorities are encouraged to participate.

The Trades Preparation course covers construction trade topics, industry orientation, material handling, scaffolding, rigging, hand and power tool use, 30 hour OSHA safety certification, site visits and mock interviews. This course is approved by the Oregon Apprenticeship Council as an authorized Pre-Apprenticeship course.

The Exploring Trades and Apprenticeship course explores career opportunities within the Trades. It introduces resources for assisting students in identifying the skills needed to succeed in these fields. This class is only held periodically, please check with the department before registering.

Consult the Apprenticeship and Trades Department for assistance in program planning.

Academic Prerequisites

None

Academic Requirements

None

Non-Academic Prerequisites

None

Non-Academic Requirements

 Students pursuing a designated and sponsored Oregon State Bureau of Labor and Industries occupation must meet entrance requirements for their chosen career.

CONSTRUCTION TRADES, GENERAL APPRENTICESHIP PATHWAY

Construction Trades, General Apprenticeship AAS Degree (p. 1) Construction Trades, General Apprenticeship Certificate (p. 1) Manual Trades Apprenticeship Certificate (p. 3)

CONSTRUCTION TRADES, GENERAL APPRENTICESHIP AAS DEGREE

The AAS degree total credit requirement depends upon which state apprenticeship the student is pursuing and the requirements of the governing Joint Apprenticeship and Training Committee, however a minimum of 90 credits is required for all degrees. Math/computation competency is met through the courses in the program of study indicated with a § symbol. Students should consult with program advisors for course planning.

| Code | Title | Credits |
|------------------|-------------------------------|---------|
| 4000-8000 Hou | ur BOLI-ATD Trades | |
| APR 162 | Calculations for the Trades § | 4 |
| College credit | courses for Related-Training | 16-75 |
| General Educa | ition: 4 courses | |
| Credit for Prior | Certification | 0-22 |
| Approved Prog | gram Electives | 0-41 |
| Total Credits | | 90-108 |

§

Course cannot be substituted for another course.

CONSTRUCTION TRADES, GENERAL APPRENTICESHIP CERTIFICATE

This certificate requires a minimum of 16 credits of related classroom training as well as 9 credits of related instruction. Embodied in this certificate are many state certifications. Both the total related training credits and the total related instruction credits depend upon which state apprenticeship the student is pursuing and the requirements of the governing Joint Apprenticeship and Training Committee

6000-8000 Hour BOLI-ATD Trades: Asbestos Removal, Carpenter, Exterior/Interior Finisher, HVAC/R, Painter, Pile Driver, Plumber, Scaffold Erector, and Sheet Metal Worker

Code Title Credits
6000-8000 Hour BOLI-ATD Trades
College credit courses for Related-Training 16-99

| | 4 | | | | |
|----------------------|---|---------|---|--|---|
| Related Instruction | | 9 | WR 121H | Composition I: Honors (WR121H=WR121HZ) ^Z | 4 |
| Credit for Prior Cer | | 0 | WR 122 | Composition II (WR122=WR122Z) ^Z | 4 |
| Approved Program | 1 Electives | 0 | WR 122H | Composition II: Honors_ | 4 |
| Total Credits | | 25-108 | VVII 12211 | (WR122H=WR122HZ) Z | 7 |
| 1 | | | WR 227 | Technical Writing (WR227=WR227Z) Z | 4 |
| See related instruct | tion list below for approved courses | | Human Relations | , | |
| RELATED INS | TRUCTION 1 | | BA 285 | Human Relations-Organizations | 3 |
| | | 0 " | CG 191 | Exploring Identity and Diversity for | 4 |
| Code | Title | Credits | | College Success | |
| | I instruction requirement within a | | MSD 107 | Organizations & People | 3 |
| | must pass courses from each category munication, human relations). The | | MSD 115 | Improving Work Relations | 3 |
| · ' | ent for a two-year certificate is 4 credits | | MSD 117 | Customer Relations | 3 |
| from each category | y and 16 credits total, the minimum | | MSD 128 | Crisis Intervention: Handling the Difficult | 1 |
| | one-year certificate is 2 credits from each | | MOD 454 | Person | |
| | edits total. No substitutions are allowed for Consult the Apprenticeship and Trades | | MSD 151 | Working with Difficult People | 1 |
| | sistance in program planning. § | | MSD 161 | | 1 |
| Computation | notarios in program planning. | | MSD 162 | The Art of Anger Management | 1 |
| APR 162 | Calculations for the Trades | 4 | MSD 200 | Organizations and Social Responsibility | 3 |
| BA 111 | Introduction to Accounting | 3 | PSY 101 | Psychology and Human Relations | 4 |
| MTH 105 | Math in Society (MTH105=MTH105Z) Z | 4 | PSY 201A | Introduction to Psychology - Part 1 | 4 |
| MTH 111 | Precalculus I: Functions | 4 | PSY 202A | Introduction to Psychology - Part 2 | 4 |
| 1011111111 | (MTH111=MTH111Z) ^Z | 7 | PSY 214 | Introduction to Personality | 4 |
| MTH 111H | , | 4 | PSY 215 | Human Development | 4 |
| MTH 112 | Precalculus II: Trigonometry | 4 | PSY 216 | Social Psychology | 4 |
| | (MTH112=MTH112Z) ^Z | | PSY 222 | Family & Intimate Relationships | 4 |
| STAT 243 | Elementary Statistics I (MTH/ | 4 | PSY 231 | Foundations of Human Sexuality | 4 |
| | STAT243=STAT243Z) ² | | PSY 232 | Human Sexuality in Social Context | 4 |
| MTH 244 | Statistics II | 4 | PSY 236 | Psychology of Adult Development and | 4 |
| MTH 251 | Calculus I | 4 | DCV 000 | Aging | 4 |
| MTH 252 | Calculus II | 4 | PSY 239 | Introduction to Abnormal Psychology | 4 |
| MTH 253 | Calculus III | 5 | PSY 240 | Personal Awareness and Growth | 4 |
| PHY 101 | Force, Motion, and Energy | 4 | SOC 204 | Introduction to Sociology | 4 |
| PHY 201 | General Physics | 4 | SOC 205 | Social Change | 4 |
| Communication | | | SOC 206 | Social Problems | 4 |
| BA 205 | Business Communication Using | 4 | SOC 213 | Diversity in the United States | 4 |
| 001414400 | Technology | | SOC 218 | Sociology of Gender | 4 |
| COMM 100 | Introduction to Communication (COMM100=COMM100Z) | 4 | SOC 221 | Globalization and International Relations | 4 |
| COMM 111 | Public Speaking | 4 | SOC 232 | Death and Dying: Culture and Issues | 4 |
| COMM 111 | (COMM111=COMM111Z) ^Z | 4 | WS 101 | Women's Studies | 4 |
| COMM 111H | Public Speaking: Honors _ | 4 | WS 201 | Intercultural Women's Studies | 4 |
| | (COMM111H=COMM111HZ) Z | | WS 202 | Women, Activism and Social Change | 4 |
| COMM 112 | Argumentation, Advocacy, and Debate | 4 | § | | |
| COMM 140 | Introduction to Intercultural | 4 | Related Instruction | details can be viewed here. | |
| | Communication | | Z | | |
| COMM 218 | Interpersonal Communication | 4 | | of Oregon Common Course Numbering. The | |
| | (COMM214=COMM218=COMM218Z) Z | | following courses a | | |
| MSD 105 | Workplace Communication Skills | 3 | COMM 100 and CO | | |
| MSD 119A | Intercultural Communication | 1 | COMM 111 and COCOMM 111H and COCOMM 11H and COCOMM | | |
| MSD 138A | Male/Female Communication Difference | | | M 218, and COMM 218Z | |
| MSD 141A | The Time-Stress-Communication Triangl | | MTH 105 and MTH | | |
| MSD 160A | Communication Styles | 1 | MTH 111 and MTH | | |
| MSD 175B | Direct Communication in the Workplace | 1 | MTH 112 and MTH | | |
| MSD 176 | Nonverbal Communication | 1 | MTH 243, STAT 24 WR 121 and WR 12 | | |
| MSD 176A | Interpersonal Communication | 1 | WR 121H and WR | | |
| WR 115 | Introduction to College Composition | 4 | WR 122 and WR 12 | 22Z | |
| WR 121 | Composition I (WR121=WR121Z) ^Z | 4 | WR 122 and WR 12 | | |
| | | | WR 227 and WR 23 | <u> </u> | |

MANUAL TRADES APPRENTICESHIP CERTIFICATE

This certificate requires a minimum of 16 credits of related classroom training. Embodied in this certificate are many state certifications. The total related training credits required depend upon which state apprenticeship the student is pursuing and the requirements of the governing Joint Apprenticeship and Training Committee.

4000-Hour BOLI-ATD Trades: Brick Mason, Concrete Finisher, Floor Covering Installer, Glazier/Glass Worker, Laborer, Plasterer, and Roofer

| Code | Title | Credits |
|-----------------------|--------------------------|---------|
| 4000 Hour BOLI-AT | D Trades | |
| College credit cour | ses for Related-Training | 16-44 |
| Related Instruction | | 0 |
| Credit for Prior Cert | ification | 0 |
| Approved Program | Electives | 0 |
| Total Credits | | 16-44 |

APPRENTICESHIP ELECTIVES

Any department-approved 100 or 200 level PCC course.

ELECTRICIAN APPRENTICESHIP TECHNOLOGIES PATHWAY

Electrician Apprenticeship Technologies AAS Degree (p. 3) Electrician Apprenticeship Technologies Certificate (p. 3) Limited Electrician Apprenticeship Technologies Certificate (p. 4)

ELECTRICIAN APPRENTICESHIP TECHNOLOGIES AAS DEGREE

The AAS degree total credit requirement depends upon which state apprenticeship the student is pursuing and the requirements of the governing Joint Apprenticeship and Training Committee, however a minimum of 90 credits is required for all degrees. Math/computation competency is met through the courses in the program of study indicated with a § symbol. Students should consult with program advisors for course planning.

| Code | Title | Credits |
|------------------|-------------------------------|---------|
| 4000-8000 Hou | ur BOLI-ATD Trades | |
| APR 162 | Calculations for the Trades § | 4 |
| College credit | courses for Related-Training | 16-75 |
| General Educa | ation: 4 courses | |
| Credit for Prior | Certification | 0-22 |
| Approved Prog | gram Electives | 0-41 |
| Total Credits | | 90-108 |
| | | |

Course cannot be substituted for another course.

ELECTRICIAN APPRENTICESHIP TECHNOLOGIES CERTIFICATE

This certificate requires a minimum of 16 credits of related classroom training as well as 9 credits of related instruction. Embodied in this certificate are many state certifications. Both the total related training credits and the total related instruction credits depend upon which state apprenticeship the student is pursuing and the requirements of the governing Joint Apprenticeship and Training Committee 6000 Hour BOLI-ATD Trades: Limited Energy Technician-License A and Sign Maker/Fabricator.

8000 Hour BOLI-ATD Trades: Inside Electrician, Limited Manufacturing Plant Electrician, Sign Assembler/Fabricator, Sign Maker/Erector and Stationary Engineer

| Code | Title | Credits |
|----------------|----------------------------------|---------|
| 6000-8000 H | lour BOLI-ATD Trades | |
| | lit courses for Related-Training | 16-99 |
| Related Instr | uction ¹ | 9 |
| Credit for Pri | or Certification | 0 |
| Approved Pr | ogram Electives | 0 |
| Total Credits | | 25-108 |
| 4 | | |

| See related instruction list below for approved courses | | | | | |
|---|---|---------|--|--|--|
| RELATED INST | TRUCTION 1 | | | | |
| certificate students (computation, comminimum requirement from each category requirement for a or category and 8 cred related instruction. | Title Instruction requirement within a must pass courses from each category nunication, human relations). The int for a two-year certificate is 4 credits and 16 credits total, the minimum re-year certificate is 2 credits from each dits total. No substitutions are allowed for consult the Apprenticeship and Trades stance in program planning. | Credits | | | |
| APR 162 | Calculations for the Trades | 4 | | | |
| BA 111 | Introduction to Accounting | 3 | | | |
| MTH 105 | Math in Society (MTH105=MTH105Z) Z | 4 | | | |
| MTH 111 | Precalculus I: Functions (MTH111=MTH111Z) | 4 | | | |
| MTH 111H | , | 4 | | | |
| MTH 112 | Precalculus II: Trigonometry (MTH112=MTH112Z) Z | 4 | | | |
| STAT 243 | Elementary Statistics I (MTH/ STAT243=STAT243Z) ^Z | 4 | | | |
| MTH 244 | Statistics II | 4 | | | |
| MTH 251 | Calculus I | 4 | | | |
| MTH 252 | Calculus II | 4 | | | |
| MTH 253 | Calculus III | 5 | | | |
| PHY 101 | Force, Motion, and Energy | 4 | | | |
| PHY 201 | General Physics | 4 | | | |
| Communication | | | | | |
| BA 205 | Business Communication Using Technology | 4 | | | |
| COMM 100 | Introduction to Communication (COMM100=COMM100Z) | 4 | | | |
| COMM 111 | Public Speaking (COMM111=COMM111Z) ^Z | 4 | | | |
| COMM 111H | Public Speaking: Honors (COMM111H=COMM111HZ) ^Z | 4 | | | |
| COMM 112 | Argumentation, Advocacy, and Debate | 4 | | | |
| COMM 140 | Introduction to Intercultural Communication | 4 | | | |
| COMM 218 | Interpersonal Communication (COMM214=COMM218=COMM218Z) ^Z | 4 | | | |
| MSD 105 | Workplace Communication Skills | 3 | | | |
| MSD 119A | Intercultural Communication | 1 | | | |
| MSD 138A | Male/Female Communication Differences | s 1 | | | |
| MSD 141A | The Time-Stress-Communication Triangle | e 1 | | | |
| MSD 160A | Communication Styles | 1 | | | |
| MSD 175B | Direct Communication in the Workplace | 1 | | | |
| MSD 176 | Nonverbal Communication | 1 | | | |
| MSD 176A | Interpersonal Communication | 1 | | | |

| WR 115 | Introduction to College Composition | 4 | 7 | |
|-----------------|---|---|---|----------------|
| WR 121 | Composition I (WR121=WR121Z) ^Z | 4 | Z This course is part of Oregon Common Course Number | ering The |
| WR 121H | Composition I: Honors (WR121H=WR121HZ) | 4 | following courses are equivalent: COMM 100 and COMM 100Z | ering. The |
| WR 122 | Composition II (WR122=WR122Z) ^Z | 4 | COMM 111 and COMM 111Z | |
| WR 122H | Composition II: Honors (WR122H=WR122HZ) ^Z | 4 | COMM 111H and COMM 111HZ COMM 214, COMM 218, and COMM 218Z | |
| WR 227 | Technical Writing (WR227=WR227Z) Z | 4 | MTH 105 and MTH 105Z MTH 111 and MTH 111Z | |
| Human Relations | 3 | | MTH 112 and MTH 112Z | |
| BA 285 | Human Relations-Organizations | 3 | MTH 243, STAT 243, and STAT 243Z | |
| CG 191 | Exploring Identity and Diversity for College Success | 4 | WR 121 and WR 121Z WR 121H and WR 121HZ | |
| MSD 107 | Organizations & People | 3 | WR 122 and WR 122Z | |
| MSD 115 | Improving Work Relations | 3 | WR 122 and WR 122HZ WR 227 and WR 227Z | |
| MSD 117 | Customer Relations | 3 | WITZET WITG WITZETZ | |
| MSD 128 | Crisis Intervention: Handling the Difficult Person | 1 | LIMITED ELECTRICIAN APPRENTICES TECHNOLOGIES CERTIFICATE | HIP |
| MSD 151 | Working with Difficult People | 1 | This certificate requires a minimum of 16 credits of rel | ated classroom |
| MSD 161 | | 1 | training. Embodied in this Certificate are many state c | |
| MSD 162 | The Art of Anger Management | 1 | The total related training credits required depend upo | |
| MSD 200 | Organizations and Social Responsibility | 3 | apprenticeship the student is pursuing and the require | |
| PSY 101 | Psychology and Human Relations | 4 | governing Joint Apprenticeship and Training Committee | ee. |
| PSY 201A | Introduction to Psychology - Part 1 | 4 | 4000 Hour BOLI-ATD Trades: Limited Energy Technic | |
| PSY 202A | Introduction to Psychology - Part 2 | 4 | B, Limited Maintenance Electrician, Limited Renewabl | le Energy |
| PSY 214 | Introduction to Personality | 4 | Technician, and Limited Residential Electrician | |
| PSY 215 | Human Development | 4 | Code Title | Credits |
| PSY 216 | Social Psychology | 4 | 4000 Hour BOLI-ATD Trades | |
| PSY 222 | Family & Intimate Relationships | 4 | College credit courses for Related-Training | 16-44 |
| PSY 231 | Foundations of Human Sexuality | 4 | Related Instruction | 0 |
| PSY 232 | Human Sexuality in Social Context | 4 | Credit for Prior Certification | 0 |
| PSY 236 | Psychology of Adult Development and Aging | 4 | Approved Program Electives Total Credits | 0 16-44 |
| PSY 239 | Introduction to Abnormal Psychology | 4 | ADDDENITION IID EL COTIVEO | |
| PSY 240 | Personal Awareness and Growth | 4 | APPRENTICESHIP ELECTIVES | |
| SOC 204 | Introduction to Sociology | 4 | Any department-approved 100 or 200 level PCC cours | se. |
| SOC 205 | Social Change | 4 | INDUSTRIAL MECHANICS AND MAINT | ENANCE |
| SOC 206 | Social Problems | 4 | TECHNOLOGY APPRENTICESHIP PAT | |
| SOC 213 | Diversity in the United States | 4 | Industrial Mechanics and Maintenance Technology Ap | |
| SOC 218 | Sociology of Gender | 4 | AAS Degree (p. 4) | ppremideship |
| SOC 221 | Globalization and International Relations | 4 | Industrial Mechanics and Maintenance Technology Ap | oprenticeship |
| SOC 232 | Death and Dying: Culture and Issues | 4 | Certificate (p. 4) | |
| WS 101 | Women's Studies | 4 | Mechanical Maintenance Apprenticeship Certificate (| o. 6) |
| WS 201 | Intercultural Women's Studies | 4 | INDUSTRIAL MECHANICS AND MAINTE | ENANCE |
| WS 202 | Women, Activism and Social Change | 4 | TECHNOLOGY APPRENTICESHIP AAS | DEGREE |
| § | on details can be viewed here | | The AAS degree total credit requirement depends upon apprenticeship the student is pursuing and the require | |

Related Instruction details can be viewed here.

TENANCE S DEGREE

pon which state apprenticeship the student is pursuing and the requirements of the governing Joint Apprenticeship and Training Committee, however a minimum of 90 credits is required for all degrees. Math/computation competency is met through the courses in the program of study indicated with a § symbol. Students should consult with program advisors for course planning.

| Code | Title | Credits |
|-------------------|--|---------|
| 4000-8000 Hou | r BOLI-ATD Trades | |
| APR 162 | Calculations for the Trades [§] | 4 |
| College credit of | courses for Related-Training | 16-75 |
| General Educat | ion: 4 courses | |
| Credit for Prior | Certification | 0-22 |

| Approved Program | Flectives | 0-41 | COMM 111 | Public Speaking _ | 4 |
|---|--|----------|-----------------|---|--------|
| Total Credits | | 90-108 | | (COMM111=COMM111Z) Z | · |
| § | | | COMM 111H | Public Speaking: Honors (COMM111H=COMM111HZ) ^Z | 4 |
| | substituted for another course. | | COMM 112 | Argumentation, Advocacy, and Debate | 4 |
| | MECHANICS AND MAINTENAN | | COMM 140 | Introduction to Intercultural Communication | 4 |
| | Y APPRENTICESHIP CERTIFIC lires a minimum of 16 credits of related cla | | COMM 218 | Interpersonal Communication (COMM214=COMM218=COMM218Z) Z | 4 |
| | credits of related instruction. Embodied i | | MSD 105 | Workplace Communication Skills | 3 |
| | state certifications. Both the total related | | MSD 119A | Intercultural Communication | 1 |
| | I related instruction credits depend upon | | MSD 138A | Male/Female Communication Differences | 1 |
| | b the student is pursuing and the requirent Apprenticeship and Training Committee. | ients of | MSD 141A | The Time-Stress-Communication Triangle | 1 |
| | | | MSD 160A | Communication Styles | 1 |
| | D Trades: Boiler/Turbine Operator, Die Ca Ilator, Industrial Mobile Mechanic, Instrum | | MSD 175B | Direct Communication in the Workplace | 1 |
| | ist, Millwright, Motor Winder, Pipe fitter, R | | MSD 176 | Nonverbal Communication | 1 |
| Turner, and Welder | ist, willwright, wotor willdor, ripo litter, ri | JII | MSD 176A | Interpersonal Communication | 1 |
| Codo | Title | Cradita | WR 115 | Introduction to College Composition | 4 |
| Code 6000-8000 Hour B0 | Title | Credits | WR 121 | Composition I (WR121=WR121Z) Z | 4 |
| | | 10.00 | WR 121H | Composition I: Honors | 4 |
| | ses for Related-Training | 16-99 | | (WR121H=WR121HZ) ^Z | |
| Related Instruction | | 9 | WR 122 | Composition II (WR122=WR122Z) ^Z | 4 |
| Credit for Prior Cert Approved Program | | 0 | WR 122H | Composition II: Honors (WR122H=WR122HZ) ^Z | 4 |
| Total Credits | | 25-108 | WR 227 | Technical Writing (WR227=WR227Z) ^Z | 4 |
| 1 | | | Human Relations | rooming (will a will a | |
| See related instruct | ion list below for approved courses | | BA 285 | Human Relations-Organizations | 3 |
| RELATED INS | | | CG 191 | Exploring Identity and Diversity for College Success | 4 |
| Code | Title | Cradita | MSD 107 | Organizations & People | 3 |
| | | Credits | MSD 115 | Improving Work Relations | 3 |
| | instruction requirement within a must pass courses from each category | | MSD 117 | Customer Relations | 3 |
| (computation, com | munication, human relations). The ent for a two-year certificate is 4 credits | | MSD 128 | Crisis Intervention: Handling the Difficult Person | 1 |
| | and 16 credits total, the minimum | | MSD 151 | Working with Difficult People | 1 |
| | ne-year certificate is 2 credits from each | | MSD 161 | Working with Difficult Leopie | 1 |
| | dits total. No substitutions are allowed for | | MSD 162 | The Art of Anger Management | 1 |
| | Consult the Apprenticeship and Trades istance in program planning. § | | MSD 200 | Organizations and Social Responsibility | 3 |
| Computation | istance in program planning. | | PSY 101 | Psychology and Human Relations | 4 |
| APR 162 | Calculations for the Trades | 4 | PSY 201A | Introduction to Psychology - Part 1 | 4 |
| BA 111 | Introduction to Accounting | 3 | PSY 202A | Introduction to Psychology - Part 1 | 4 |
| MTH 105 | Math in Society (MTH105=MTH105Z) ^Z | 4 | PSY 214 | Introduction to Personality | • |
| MTH 111 | Precalculus I: Functions | 4 | PSY 215 | Human Development | 4 4 |
| IVIIII I I I | (MTH111=MTH111Z) | | PSY 216 | Social Psychology | 4 |
| MTH 111H | , | 4 | PSY 222 | Family & Intimate Relationships | 4 |
| MTH 112 | Precalculus II: Trigonometry | 4 | PSY 231 | , | 4 |
| | (MTH112=MTH112Z) Z | | PSY 232 | Foundations of Human Sexuality | |
| STAT 243 | Elementary Statistics I (MTH/ | 4 | | Human Sexuality in Social Context | 4 |
| MTHOAA | STAT243=STAT243Z) ^Z | 4 | PSY 236 | Psychology of Adult Development and Aging | 4 |
| MTH 244 | Statistics II | 4 | PSY 239 | Introduction to Abnormal Psychology | 4 |
| MTH 251 | Calculus I | 4 | PSY 240 | Personal Awareness and Growth | 4 |
| MTH 252 | Calculus II | 4 | SOC 204 | Introduction to Sociology | 4 |
| MTH 253 | Calculus III | 5 | SOC 205 | Social Change | 4 |
| PHY 101 | Force, Motion, and Energy | 4 | SOC 206 | Social Problems | 4 |
| PHY 201 | General Physics | 4 | SOC 213 | Diversity in the United States | 4 |
| Communication | | | SOC 218 | Sociology of Gender | 4 |
| BA 205 | Business Communication Using | 4 | SOC 221 | Globalization and International Relations | 4 |
| COMM 100 | Technology | 4 | SOC 232 | Death and Dying: Culture and Issues | 4 |
| COMM 100 | Introduction to Communication (COMM100=COMM100Z) | 4 | WS 101 | Women's Studies | 4 |

WS 201 Intercultural Women's Studies
WS 202 Women, Activism and Social Change

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Related Instruction details can be viewed here.

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This course is part of Oregon Common Course Numbering. The following courses are equivalent:

COMM 100 and COMM 100Z COMM 111 and COMM 111Z COMM 111H and COMM 111HZ

COMM 214, COMM 218, and COMM 218Z

MTH 105 and MTH 105Z MTH 111 and MTH 111Z MTH 112 and MTH 112Z

MTH 243, STAT 243, and STAT 243Z

WR 121 and WR 121Z WR 121H and WR 121HZ WR 121H and WR 121HZ WR 122 and WR 122Z WR 122 and WR 122HZ WR 227 and WR 227Z

MECHANICAL MAINTENANCE APPRENTICESHIP CERTIFICATE

This certificate requires a minimum of 16 credits of related classroom training. Embodied in this certificate are many state certifications. The total related training credits required depend upon which state apprenticeship the student is pursuing and the requirements of the governing Joint Apprenticeship and Training Committee.

4000 Hour BOLI-ATD Trades: Air Frame and Power Plant Technicians, Boiler Operator, and Programmable Logic Controller

| Code | Title | Credits |
|----------------------|--------------------------------|---------|
| 4000 Hour BC | DLI-ATD Trades | |
| College credi | t courses for Related-Training | 16-44 |
| Related Instru | iction | 0 |
| Credit for Price | r Certification | 0 |
| Approved Pro | gram Electives | 0 |
| Total Credits | | 16-44 |

APPRENTICESHIP ELECTIVES

Any department-approved 100 or 200 level PCC course.

LESS THAN ONE-YEAR CERTIFICATE: CAREER PATHWAY

Pre-Trades

Pre-Trades for Advanced Manufacturing (p. 6)

PRE-TRADES CAREER PATHWAY CERTIFICATE

Minimum 15 credits. Students must meet all certificate requirements.

Pre-Trades Certificate Courses

| Code | Litle | Credits |
|---------------|---|---------|
| APR 162 | Calculations for the Trades | 4 |
| APR 200A | Pre-Apprenticeship | 3 |
| APR 200B | OSHA 30 for Pre-Apprenticeship | 3 |
| APR 200C | Pre-Apprenticeship Hands-On Instruction | 1 2 |
| ELT 110 | Introduction to Residential Electrical Wiring | 3 |
| Total Credits | | 15 |

PRE-TRADES FOR ADVANCED

MANUFACTURING CAREER PATHWAY CERTIFICATE

Minimum 16 credits. Students must meet all certificate requirements.

Pre-Trades for Advanced Manufacturing Certificate Courses

| Code | Title | Credits |
|---------------|--------------------------------------|---------|
| APR 162 | Calculations for the Trades | 4 |
| APR 200D | OSHA 30 General Industry | 3 |
| or APR 200B | OSHA 30 for Pre-Apprenticeship | |
| ELT 125 | Basic Programmable Logic Controllers | 2 |
| MCH 121 | Manufacturing Processes I | 5 |
| WLD 190B | Basic Welding Practice | 2 |
| Total Credits | | 16 |