DEGREES AND CERTIFICATE AGENDA
February 6, 2008

Old Business:

2:00 Overview of January minutes

2:15 BCT-AAS (Revision) Certificate Design/Build Remodeling Option-Bob Steele

2:30 Trade Extensions: Katrina Cloud

- Informational-Electrician App Pathways: At A Glance
- (New) AAS Degree in Electrician Apprenticeship Technologies
- (New) Certificate of Completion in Limited Electrician Apprenticeship Technologies
- (New) Certificate of Completion in Electrician Apprenticeship Technologies
- Informational-Construction Trades, General App Pathways: At A Glance
- (New) AAS Degree-Construction Trades , General Apprenticeship
- (New) Certificate of Completion in Construction Trades, General Apprenticeship
- (New) Certificate of Completion in Manual Apprenticeship Trades
- Informational-Industrial Mechanical and MTX Tech App Pathway: At A Glance
- (New) AAS Degree in Industrial Mechanics and MTX Technology Apprenticeship
- (New) Certificate of Completion in Manual Apprenticeship Trades
- (New) Certificate of Completion in Industrial Mechanics and MTX Tech Apprenticeship

3:00 Radiology-(Revision) AAS Radiological Technology-Barbara Smith

3:15 New AAS Degree Option in Microelectonics Technology: Solar Industrial Manufacturing Technology-DorinaCornea-Hasegan

3:30 Electronic Engineering Technology-Sanda Williams

- (New) AAS Degree Option in Electronic Engineering Technology: Wireless and Data Communication Engineering Technology –Sanda Williams
- EET-(Revision)-Certificate Biomedical Engineering Technology-Sanda Williams
- EET-(Revision) -Certificate Electronic Engineering Technology-Sanda Williams

3:45 Aviations Science -(Revision) AAS Airplane (Flight Instructor Specialization)-Katie Leonard

4:00 Biotechnology-Kendra Cawley

- (Revision) AAS Biotechnology Laboratory Technician-Kendra Cawley

- BIT- (New) Bioscience Technology Certificate: Biotechnician-Kendra Cawley

Electrician Apprenticeship Pathways: At-A-Glance

Revised January 8, 2008

Certificate of Completion Limited Electrician Apprenticeship Technologies

4000-Hour BOLI-ATD Trades: Limited Energy Technician-License B, Limited Maintenance Electrician, Limited Renewable Energy Technician, and Limited Residential Electrician

- ✓ Related-Training: 18 – 44 credits
- ✓ No Related Instruction / General Education
- ✓ No Credit for Prior Certification
- ✓ Total Credits: 18 – 44

Certificate of Completion Electrician Apprenticeship Technologies

6000-8000-Hour BOLI-ATD Trades: Limited Energy Technician-License A, Sign Maker/Fabricator, Inside Electrician, Limited Manufacturing Plant Electrician, Sign Assembler/Fabricator, Sign Maker/Erector and Stationary Engineer

- ✓ Related-Training: 24 – 61 credits
- ✓ Related Instruction / General Education: 9 -14 credits
- ✓ No Credit for Prior Certification
- ✓ Total Credits: 33 – 75

Associate of Applied Science Electrician Apprenticeship Technologies

- ✓ 4000, 6000 or 8000-Hour BOLI-ATD Trades
- ✓ Credit for Prior Certification: 0 – 22 credits
- ✓ Related-Training previously earned: 18 – 61 credits
- ✓ Approved Program electives: 0 – 41 credits
- ✓ General Education: 9 – 24 credits
- ✓ Total Credits: 90 – 108
- ✓ Credits may vary by trade and college requirements

BS in Operations Management at Oregon Institute of Technology

- ✓ Transfer with OTM and related-training 87 credits
- ✓ A career ladder into management, supervision, or small business management

Oregon Transfer Module (OTM) 45 Gen. Ed credits guaranteed block transfer at ANY OUS Institution.

Notes and Highlights

- **College Conferred: Independent of BOLI-ATD Award of Completion**
- **Statewide: More Access to Related-Training courses**
- **Easier: Block Transfer of Related-Training credits**
- **Consistency: Aligned Courses with State Apprenticeship Training Council Standards**
- **Added Value: College Credit for Journey-level Card in AAS degree**
- **Apprenticeship Career Pathway: Advancement opportunities**
- **More Choice: Industry Specific Electives in AAS degree**
- **General Education Courses in AAS: Varies from institution to institution. Some related instruction credits could be used to satisfy this requirement.**

Certificate of Completion	Limited Electrician Apprenticeship CIP 46.0301 Electrician and Power Transmission Installation/Installer, General	Electrician Apprenticeship Technologies CIP 46.0301 Electrician and Power Transmission Installation/Installer, General
Bureau of Labor and Industries (BOLI) – Apprenticeship Training Division (ATD) Trades	4000 Hour BOLI-ATD Trades: Limited Energy Technician- License B, Limited Maintenance Electrician, Limited Renewable Energy Technician, and Limited Residential Electrician	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
Program Learning Outcomes and Assessments	Program Outcomes: 1. Complete 4000 hours State of Oregon-approved on-the-job-training (OJT) 2. Repair or install electrical wire devices according to limited licensure regulations to meet NEC and OSC code for Limited Energy Technician- License B, Limited Maintenance Electrician, Limited Renewable Energy Technician, and Limited Residential Electrician Assessment Tool: Electrician Apprenticeship Trades Outcomes Assessment Tool – See Attached Benchmarks: 1. Seventy-five percent of applicants have documented trade-specific skills listed on the Electrician Apprenticeship Trades Outcomes Assessment Tool 2. Successfully complete all required related-training with a grade of “C” or better *(This certificate does not guarantee licensure)*	Program outcomes: 1. Complete 6000-8000 hours State of Oregon-approved on-the-job-training Apply theory to electrical wiring 2. Repair & install electrical wire devises according to licensure regulations to meet NEC and OSC for Inside Electrician, Limited Energy Technician-License A, Limited Manufacturing Plant Electrician, Sign Assembler/Fabricator, Sign Maker/Erector, and Stationary Engineer Assessment Tool: Electrician Apprenticeship Trades Outcomes Assessment Tool – See Attached Benchmarks: 1. Seventy-five percent of applicants have documented trade-specific skills listed on the Electrician Apprenticeship Trades Outcomes Assessment Tool 2. Complete all required related-training with a grade of “C” or better *(This certificate does not guarantee licensure)*
Related Instruction / General Education* (Computation/Math)	n/a	One course 3 credits or more
Related Instruction / General Education* (Communications: Oral or Written)	n/a	One course 3 credits or more
Related Instruction / General Education* (Human Relations: Any psychology, sometimes sociology)	n/a	One course 3 credits or more
Related-Training (Oregon State Apprenticeship Training Technical Courses specific to each trade)	24	24-61
Total Credits	**18-44**	**33-75**
Participating Institutions	All participating CCAC members	All participating CCAC members

*Institution choice and specific to each trade

Associate of Applied Science in Electrician Apprenticeship Technologies with Advising Guide

	Associate of Applied Sciences Electrician Apprenticeship Technologies CIP 46.0301 Electrician and Power Transmission Installation/Installer, General (Minimum Requirements)		**Advising Guide** (For advising purposes only. Aligned with the OTM[1] and OIT)		**BS in Operations Management at Oregon Institute of Technology**	
	Course Name	**CR**	**Course Name**	**CR**	**Course Name**	**CR**
General Education Requirements. (Must meet individual college competency requirements)	General Education per institutional requirements.	9-24	MTH 111 College Algebra**	4	MTH 111 College Algebra	4
			WR 121 Eng Composition**	3	WR 121 Eng Composition	3
			WR 122 Eng Composition**	3	WR 122 Eng Composition	3
			SP 111 Fund of Speech**	3	SP 111 Fund of Speech	3
			PSY 201 Gen Psychology	3		
			Arts and Letters/Humanities (e.g. digital photography.)	9	Arts and Letters/Humanities (e.g. digital photography.) Only 3 credits can be from performing arts**	9
			ECON 201 Principles of Economics: Microeconomics	3-4	ECON 201 Principles of Economics: Microeconomics	3-4
			ECON 202 Principles of Economics: Macroeconomics	3-4	ECON 202 Principles of Economics: Macroeconomics	3-4
			Any biology, chemistry, or physical science courses. Recommend algebra-based physics series 201, 202, and 203	9-15	Any biology, chemistry, or physical science courses. Recommend algebra-based physics series 201, 202, and 203	9
			Additional science/math/computer science (Doesn't have to be a lab science)	3 - 7	Additional science/math/computer science (Doesn't have to be a lab science)	3 - 7
Related-Training range of credits is based on specific trade requirement	Per JATC/OSATC requirements for each trade	18-61		18 -61	Community college related-training and/or credit for prior certification	Up to 42
Credit for Prior Certification[2]		0-22		0-22		
Approved Program Electives Technical or pre-requisite general education courses to make up minimum requirement		0-41	WR227 Technical Report Writing	4	WR 227 Technical Report Writing	4
Total Credits		**90 - 108**		**90- 108**		**Maximum 87**

**[1] Oregon Transfer Module requirement: In Addition to an AAS degree, the student earns a recognition award posted on their community college transcript: Oregon Transfer Module. Forty-five guaranteed block transfer of general education credit (1st year) to any Oregon University System institution. Students must apply for the OTM: fees vary from institution to institution,

[2] Must provide a State of Oregon Apprenticeship Training Journeyman card or BOLI-ATD Certificate of Completion.

Electrician Apprenticeship Trades Outcomes Assessment Tool

Student Name _____ **Date** _____

_____

Trade **OJT** **Related Training Hours**

ELECTRICAL FUNDAMENTALS / SAFETY	√ **COMPLETED**
Describe and solve mathematical formulas and equations of theory	
Describe and apply basic theory of electrical sources	
Explain magnetic induction related generator, motors, and transformers	
Use different types of batteries	
Demonstrate safe working conditions in accordance with State and Federal Regulations	
MATHEMATICS / MEASUREMENT / CALCULATIONS AND EQUIPMENT	
Calculate voltage drop	
Calculate point to point method for short circuit	
Solve electrical equations using trade specific mathematical formulas	
Use test equipment to make electrical measurements	
Demonstrate the use and care or trade specific equipment	
ASSESSMENT, TROUBLESHOOTING AND REPAIR	
Read/draw and interpret industrial prints and schematics	
Operate PLCs according to trade specific applications and methodology	
Describe three different trade-specific troubleshooting techniques	
Demonstrate trade-specific repair techniques	
CODE AND JOURNEY-LEVEL PREP	
Interpret the NEC code	
Interpret the Oregon Specialty Code	
Prepare for NEC code exam	

Approved by _____ **Date** _____

PORTLAND COMMUNITY COLLEGE

New Associate of Applied Science (AAS) Degree or Certificate Request Form

Proposed Degree/Certificate Title: Associate of Applied Science in Electrician Apprenticeship Technologies

Reason for New Degree/Certificate: Oregon Statewide Apprenticeship Degree - Electrical Pathway

Requested Implementation Term: Summer 2008

Has Degree/Certificate been validated by the Advisory Committee?
☒ Yes ☐ No If No, explain

Proposed Degree/Certificate addresses the following Core PCC Outcomes:
(*check all that apply*)
☒ Communication
☒ Community and Environmental Responsibility
☒ Critical Thinking and Problem Solving
☐ Cultural Awareness
☒ Professional Competence
☒ Self-Reflection

List Degree/Certificate Outcomes:

Sample Outcomes
• Demonstrate an ability to analyze one's own subjective experience, interpersonal relationships, and the social-cultural context. • Upload, test and deploy web pages containing JavaScript

New Degree/Certificate Outcomes
• Complete 4000, 6000 or 8000 hours State of Oregon-approved on-the-job-training - Hours vary by trade • Apply theory to electrical wiring • Repair and/or install electrical wire devises according to licensure regulations to meet NEC and OSC for Inside Electrician, Limited Energy Technician-License A, Limited Manufacturing Plant Electrician, Sign Assembler/Fabricator, Sign Maker/Erector, Stationary Engineer, Limited Energy Technician- License B, Limited Maintenance Electrician, Limited Renewable Energy Technician, and Limited Residential Electrician

All candidates for the Associate of Applied Science degree must complete 16 credits of General Education, 8 of which can be specified by the department issuing the degree. The 16 credits must include at least 1 course, with no more than 8 credits from the following three categories:

1. Arts and Humanities
2. Mathematics, Natural and Physical sciences, Social Science
3. Social Science

List Degree/Certificate Coursework:

Course Number	Sample Course Title	Credit
CAS 110 CAS 175	Intro to Web Graphic-Fireworks Introduction to Flash	1 3
Total Credits		4

Course Number	Course Title	Credit
Total Credits		

For <u>New Certificate's of 45 credits or more</u>: Fill out Template for Related Instruction (http://www.pcc.edu/resources/academic/eac/degree/forms.html).

Impact on Other Areas of Instruction:

Have you talked to other area SACs?

☒ No ☐ Yes If Yes, explain how

Contact Information:

Submitted by: Katrina Cloud

Contact e-mail: kcloud@pcc.edu

Next Steps:

1. a. Save completed New AAS Degree/Certificate Request Form and Submit as an email attachment to curriculum@pcc.edu.
   b. If needed, attach Related Instruction Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) to the same email.

2. Download and print New AAS Degree/Certificate Signature Page Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) and get the appropriate signatures.

3. Staple signed New AAS Degree/Certificate Signature Page Form to a hard copy of New AAS Degree/Certificate Request Form (electronic version has already been sent in Step 1). Send both forms to Curriculum Office, Rock Creek Campus, Building 5, Room 114 via campus mail.

PORTLAND COMMUNITY COLLEGE

New Associate of Applied Science (AAS) Degree or Certificate Request Form

Proposed Degree/Certificate Title: Certificate of Completion in Electrician Apprenticeship Technologies

Reason for New Degree/Certificate: Oregon Statewide Apprenticeship Certificate

Requested Implementation Term: Summer 2008

Has Degree/Certificate been validated by the Advisory Committee?
☒ Yes ☐ No If No, explain

Proposed Degree/Certificate addresses the following Core PCC Outcomes:
(*check all that apply*)
☒ Communication
☒ Community and Environmental Responsibility
☒ Critical Thinking and Problem Solving
☐ Cultural Awareness
☒ Professional Competence
☒ Self-Reflection

List Degree/Certificate Outcomes:

Sample Outcomes
• Demonstrate an ability to analyze one's own subjective experience, interpersonal relationships, and the social-cultural context. • Upload, test and deploy web pages containing JavaScript

New Degree/Certificate Outcomes
• Complete 6000 or 8000 hours State of Oregon-approved on-the-job-training Apply theory to electrical wiring - Hours vary by trade • Repair & install electrical wire devises according to licensure regulations to meet NEC and OSC for Inside Electrician, Limited Energy Technician-License A, Limited Manufacturing Plant Electrician, Sign Assembler/Fabricator, Sign Maker/Erector, and Stationary Engineer

All candidates for the Associate of Applied Science degree must complete 16 credits of General Education, 8 of which can be specified by the department issuing the degree. The 16 credits must include at least 1 course, with no more than 8 credits from the following three categories:

1. Arts and Humanities
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List Degree/Certificate Coursework:

Course Number	**Sample Course Title**	**Credit**
CAS 110	Intro to Web Graphic-Fireworks	1
CAS 175	Introduction to Flash	3

Total Credits	4

Course Number	Course Title	Credit
Total Credits		

For <u>New Certificate's of 45 credits or more</u>: Fill out Template for Related Instruction (http://www.pcc.edu/resources/academic/eac/degree/forms.html).

Impact on Other Areas of Instruction:

Have you talked to other area SACs?

☒ No ☐ Yes If Yes, explain how

Contact Information:

Submitted by: Katrina Cloud

Contact e-mail: kcloud@pcc.edu

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PORTLAND COMMUNITY COLLEGE

New Associate of Applied Science (AAS) Degree or Certificate Request Form

Proposed Degree/Certificate Title: Certificate of Completion in Limited Electrician Apprenticeship Technologies

Reason for New Degree/Certificate: Oregon Statewide Apprenticeship Certificate

Requested Implementation Term: Summer 2008

Has Degree/Certificate been validated by the Advisory Committee?
☒ Yes ☐ No If No, explain

Proposed Degree/Certificate addresses the following Core PCC Outcomes:
(*check all that apply*)
☒ Communication
☒ Community and Environmental Responsibility
☒ Critical Thinking and Problem Solving
☐ Cultural Awareness
☒ Professional Competence
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List Degree/Certificate Outcomes:

Sample Outcomes
• Demonstrate an ability to analyze one's own subjective experience, interpersonal relationships, and the social-cultural context. • Upload, test and deploy web pages containing JavaScript

New Degree/Certificate Outcomes
• Complete 4000 hours State of Oregon-approved on-the-job-training (OJT) - Hours vary by trade • Repair or install electrical wire devices according to limited licensure regulations to meet NEC and OSC code for Limited Energy Technician- License B, Limited Maintenance Electrician, Limited Renewable Energy Technician, and Limited Residential Electrician

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Course Number	Course Title	Credit
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Construction Trades, General Apprenticeship Pathways: At-A-Glance

Revised January 8, 2008

Certificate of Completion
Manual Apprenticeship Trades

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

- ✓ Related Training: 18 - 44 credits
- ✓ Related Instruction / General Education: 0 credits
- ✓ Total Credits: 18 - 44

Certificate of Completion
Construction Trades, General Apprenticeship

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

- ✓ Related Training: 24–61 credits
- ✓ Related Instruction / General Education: 9-14 credits
- ✓ Total Credits: 33 - 75

Associate of Applied Science
Construction Trades, General Apprenticeship

- ✓ 4000, 6000 and 8000-Hour Trades
- ✓ Credit for Prior Certification: 0 – 22 credits
- ✓ Related-Training previously earned: 18 – 61 credits
- ✓ Approved Program Electives: 0 – 41 credits
- ✓ Related Instruction / General Education: 9 – 24 credits
- ✓ Total Credits: 90 – 108
- ✓ Credits may vary by trade and college requirements

BS in Operations Management at Oregon Institute of Technology

- ✓ Transfer with OTM and 87 related-training credits
- ✓ A career ladder into management, supervision or small business management

Oregon Transfer Module (OTM) 45 Gen. Ed credits guaranteed block transfer at ANY OUS Institution.

Notes and Highlights

- **College Conferred: Independent of BOLI-ATD Award of Completion**
- **Statewide: More Access to Related-Training courses**
- **Easier: Block Transfer of Related-Training credits**
- **Consistency: Aligned Courses with State Apprenticeship Training Council Standards**
- **Added Value: College Credit for Journey-level Card in AAS degree**
- **Apprenticeship Career Pathway: Advancement opportunities**
- **More Choice: Industry Specific Electives in AAS degree**
- **General Education Courses in AAS: Varies from institution to institution. Some related instruction credits could be used to satisfy this requirement**

Certificate of Completion	**Manual Apprenticeship Trades** CIP: 46.0000 Construction Trades, General	**Construction Trades, General Apprenticeship** CIP: 46.0000 Construction Trades, General
BOLI-ATD Trades	4000-Hour BOLI-ATD Trades: Brick Mason, Concrete Finisher, Floor Covering Installer, Glazier/Glass Worker, Laborer, Plasterer, and Roofer	6,000-8000-Hour BOLI-ATD Trades: Asbestos Removal, Carpenter, HVAC/R, Exterior/Interior Finisher, Painter, Pile Driver, Plumber, Scaffold Erector, and Sheet Metal Worker
Program Learning Outcomes and Assessments	Program Outcomes: 1. Complete a minimum of 4000 hours State of Oregon-approved on-the-Job Training (OJT) 2. Repair, install, and maintain a variety of building construction projects using trade specific tools and techniques in compliance with building codes and OSHA regulations Assessment Tool- Construction Trades, General Apprenticeship Outcomes Assessment Tool - See Attached Benchmarks: 1. Seventy-five per cent of applicants have documented trade-specific skills listed on the Construction Trades, General Apprenticeship Outcomes Assessment Tool 2. Complete required related training with a grade "C" or better *(This degree does not guarantee licensure)*	Program Outcomes: 1. Complete a minimum of 6000-8000 hours State of Oregon-approved on-the-Job Training (OJT) 2. Repair, install, and maintain a variety of building construction projects using trade specific tools and techniques in compliance with building codes and OSHA regulations Assessment Tool – Construction Trades, General Apprenticeship Outcomes Assessment Tool - See Attached Benchmarks: 1. Seventy-five per cent of applicants have documented trade-specific skills listed on the Construction Trades, General Apprenticeship Outcomes Assessment Tool 2. Complete required related training with a grade "C" or better *(This degree does not guarantee licensure)*
Related Instruction / General Education* (Computation/Math)	n/a	One course 3 credits or more
Related Instruction / General Education* (Communications: Oral or Written)	n/a	One course 3 credits or more
Related Instruction / General Education* (Human Relations: Any psychology, sometimes sociology)	n/a	One course 3 credits or more
Related-Training (Oregon State Apprenticeship Training Technical Courses specific to each trade**)**	18 - 44	24-61
Total Credits	18 - 44	33-75
Participating Institutions	Contact your local community college	Contact your local community college

***Institution choice and specific to each trade

AAS in Construction Trades, General Apprenticeship *with* Advising Guide

	Associate of Applied Sciences Degree CIP: 46.0000 Construction Trades, General		**Advising Guide** *(For advising purposes only. Aligned with the OTM[1] and OIT)*		**Bachelor of Science** *Operations Management (OIT) Degree Requirements*	
	Course Name	**CR**	**Course Name**	**CR**	**Course Name**	**CR**
General Education Requirements. (Must meet individual college competency requirements.)	General Education per institutional requirements.	9-24	MTH 111 College Algebra**	4	MTH 111 College Algebra	4
			WR 121 Eng Composition**	3	WR 121 Eng Composition	3
			WR 122 Eng Composition**	3	WR 122 Eng Composition	3
			SP 111 Fund of Speech**	3	SPE 111 Fundamentals of Speech	3
			PSY 201 Gen. Psychology	3	PSY 201 Psychology	3
			Arts and Letters/Humanities (e.g. digital photography.)	9	Arts and Letters/Humanities (e.g. digital photography.) Only 3 credits can be from performing arts**	9
			ECON 201 Principles of Economics: Microeconomics	3-4	ECON 201 Principles of Economics: Microeconomics	3-4
			ECON 202 Principles of Economics: Macroeconomics	3-4	ECON 202 Principles of Economics: Macroeconomics	3-4
			Any biology, chemistry, or physical science courses Recommend algebra-based physics series 201, 202, and 203	9-15	Any biology, chemistry, or physical science courses Recommend algebra-based physics series 201, 202, and 203	9-15
			Additional science/math/computer science (Doesn't have to be a lab science)	3-7	Additional science/math/computer science (Doesn't have to be a lab science)	3-7
Related-Training range of credits is based on specific trade requirement		18 - 56	18 - 61		Community college related training and/or credit for prior certification	Up to 42
Credit for Prior Certification[2]		0-22	0-22			
Approved Program Electives Technical or pre-requisite general education courses to make up minimum credit requirement		0 – 41	WR 227 Technical Report Writing	4	WR 227 Technical Report Writing	4
Total Credits		**90 – 108**		**90 – 108**		**Maximum 87**

**[1] Oregon Transfer Module requirement. In addition to an AAS degree, the student earns a recognition award posted on their community college transcript: Oregon Transfer Module. Forty-five guaranteed block transfer of gen. education credit (1st year) to any Oregon University System institution. Students must apply for the OTM; fees vary from institution to institution

[2] Must provide a State of Oregon Apprenticeship Training Journeyman card or BOLI Certificate of Completion

Construction Trades, General Apprenticeship Outcomes Assessment Tool

Student Name _____ **Date _____**

_____

Trade **OJT** **Related Training Hours**

BUILDING FUNDAMENTALS / SAFETY	√ **COMPLETED**
Demonstrate safe working practices including rigging and lock out tag out according to state and federal regulations	
Apply OSHA practices in relationship to the specific trade	
Apply theory as it relates to trade competencies	
Utilize recognized standard building codes guideline as applicable	
Demonstrate ability to perform welding/brazing applications	
Analyze the properties of materials and how they apply to welding and brazing applications	
MATHEMATICS / MEASUREMENT / CALCULATIONS AND EQUIPMENT	
Calculate elementary algebraic equations and formulas	
Apply appropriate formulas to mathematical situations	
Demonstrate the proper care, use and storage of hand and power tools	
BLUEPRINTS AND SCHEMATICS	
Read and interpret building plans and drawings	
Prepare and utilize isometric sketching and detailed drawings per individual trade	
CODE AND JOURNEY-LEVEL PREP	
Utilize recognized standard building codes guidelines as applicable	
Complete a code prep exam with a 75% or higher score per individual trade	

Approved by _____ **Date _____**

PORTLAND COMMUNITY COLLEGE

New Associate of Applied Science (AAS) Degree or Certificate Request Form

Proposed Degree/Certificate Title: Associate of Applied Science in Construction Trades, General Apprenticeship

Reason for New Degree/Certificate: Oregon Statewide Apprenticeship Degree - Construction Pathway

Requested Implementation Term: Summer 2008

Has Degree/Certificate been validated by the Advisory Committee?
☒ Yes ☐ No If No, explain

Proposed Degree/Certificate addresses the following Core PCC Outcomes:
(*check all that apply*)
☒ Communication
☒ Community and Environmental Responsibility
☒ Critical Thinking and Problem Solving
☐ Cultural Awareness
☒ Professional Competence
☒ Self-Reflection

List Degree/Certificate Outcomes:

Sample Outcomes
• Demonstrate an ability to analyze one's own subjective experience, interpersonal relationships, and the social-cultural context. • Upload, test and deploy web pages containing JavaScript

New Degree/Certificate Outcomes
• Complete a minimum of 4000, 6000 or-8000 hours State of Oregon-approved on-the-Job Training (OJT) - Hours vary by trade • Repair, install, and maintain a variety of building construction projects using trade specific tools and techniques in compliance with building codes and OSHA regulations for the Brick Mason, Concrete Finisher, Floor Covering Installer, Glazier/Glass Worker, Laborer, Plasterer, Roofer, Asbestos Removal, Carpenter, HVAC/R, Exterior/Interior Finisher, Painter, Pile Driver, Plumber, Scaffold Erector, and Sheet Metal Worker

All candidates for the Associate of Applied Science degree must complete 16 credits of General Education, 8 of which can be specified by the department issuing the degree. The 16 credits must include at least 1 course, with no more than 8 credits from the following three categories:

1. Arts and Humanities
2. Mathematics, Natural and Physical sciences, Social Science
3. Social Science

List Degree/Certificate Coursework:

Course Number	Sample Course Title	Credit
CAS 110 CAS 175	Intro to Web Graphic-Fireworks Introduction to Flash	1 3
Total Credits		4

Course Number	Course Title	Credit
Total Credits		

For <u>New Certificate's of 45 credits or more</u>: Fill out Template for Related Instruction (http://www.pcc.edu/resources/academic/eac/degree/forms.html).

Impact on Other Areas of Instruction:

Have you talked to other area SACs?

☒ No ☐ Yes If Yes, explain how

Contact Information:

Submitted by: Katrina Cloud

Contact e-mail: kcloud@pcc.edu

Next Steps:

1. a. Save completed New AAS Degree/Certificate Request Form and Submit as an email attachment to curriculum@pcc.edu.
   b. If needed, attach Related Instruction Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) to the same email.

2. Download and print New AAS Degree/Certificate Signature Page Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) and get the appropriate signatures.

3. Staple signed New AAS Degree/Certificate Signature Page Form to a hard copy of New AAS Degree/Certificate Request Form (electronic version has already been sent in Step 1). Send both forms to Curriculum Office, Rock Creek Campus, Building 5, Room 114 via campus mail.

PORTLAND COMMUNITY COLLEGE

New Associate of Applied Science (AAS) Degree or Certificate Request Form

Proposed Degree/Certificate Title: Certificate of Completion in Manual Apprenticeship Trades

Reason for New Degree/Certificate: Oregon Statewide Apprenticeship Certificate - Construction Pathway

Requested Implementation Term: Summer 2008

Has Degree/Certificate been validated by the Advisory Committee?
☒ Yes ☐ No If No, explain

Proposed Degree/Certificate addresses the following Core PCC Outcomes:
(*check all that apply*)
☒ Communication
☒ Community and Environmental Responsibility
☒ Critical Thinking and Problem Solving
☐ Cultural Awareness
☒ Professional Competence
☒ Self-Reflection

List Degree/Certificate Outcomes:

Sample Outcomes
• Demonstrate an ability to analyze one's own subjective experience, interpersonal relationships, and the social-cultural context. • Upload, test and deploy web pages containing JavaScript

New Degree/Certificate Outcomes
• Complete a minimum of 4000 hours State of Oregon-approved on-the-Job Training (OJT) - Hours vary by trade • Repair, install, and maintain a variety of building construction projects using trade specific tools and techniques in compliance with building codes and OSHA regulations for the Brick Mason, Concrete Finisher, Floor Covering Installer, Glazier/Glass Worker, Laborer, Plasterer, and Roofer

All candidates for the Associate of Applied Science degree must complete 16 credits of General Education, 8 of which can be specified by the department issuing the degree. The 16 credits must include at least 1 course, with no more than 8 credits from the following three categories:

1. Arts and Humanities
2. Mathematics, Natural and Physical sciences, Social Science
3. Social Science

List Degree/Certificate Coursework:

Course Number	**Sample Course Title**	**Credit**
CAS 110	Intro to Web Graphic-Fireworks	1
CAS 175	Introduction to Flash	3

Total Credits	4

Course Number	Course Title	Credit
Total Credits		

For <u>New Certificate's of 45 credits or more</u>: Fill out Template for Related Instruction (http://www.pcc.edu/resources/academic/eac/degree/forms.html).

Impact on Other Areas of Instruction:

Have you talked to other area SACs?

☒ No ☐ Yes If Yes, explain how

Contact Information:

Submitted by: Katrina Cloud

Contact e-mail: kcloud@pcc.edu

Next Steps:

1. a. Save completed New AAS Degree/Certificate Request Form and Submit as an email attachment to curriculum@pcc.edu.
   b. If needed, attach Related Instruction Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) to the same email.

2. Download and print New AAS Degree/Certificate Signature Page Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) and get the appropriate signatures.

3. Staple signed New AAS Degree/Certificate Signature Page Form to a hard copy of New AAS Degree/Certificate Request Form (electronic version has already been sent in Step 1). Send both forms to Curriculum Office, Rock Creek Campus, Building 5, Room 114 via campus mail.

PORTLAND COMMUNITY COLLEGE

New Associate of Applied Science (AAS) Degree or Certificate Request Form

Proposed Degree/Certificate Title: Certificate of Completion in Construction Trades, General Apprenticeship

Reason for New Degree/Certificate: Oregon Statewide Apprenticeship Certificate - Construction Pathway

Requested Implementation Term: Summer 2008

Has Degree/Certificate been validated by the Advisory Committee?
☒ Yes ☐ No If No, explain

Proposed Degree/Certificate addresses the following Core PCC Outcomes:
(*check all that apply*)
☒ Communication
☒ Community and Environmental Responsibility
☒ Critical Thinking and Problem Solving
☐ Cultural Awareness
☒ Professional Competence
☒ Self-Reflection

List Degree/Certificate Outcomes:

Sample Outcomes
• Demonstrate an ability to analyze one's own subjective experience, interpersonal relationships, and the social-cultural context. • Upload, test and deploy web pages containing JavaScript

New Degree/Certificate Outcomes
• Complete a minimum of 6000 or 8000 hours State of Oregon-approved on-the-Job Training (OJT) - Hours vary by trade • Repair, install, and maintain a variety of building construction projects using trade specific tools and techniques in compliance with building codes and OSHA regulations for the Asbestos Removal, Carpenter, HVAC/R, Exterior/Interior Finisher, Painter, Pile Driver, Plumber, Scaffold Erector, and Sheet Metal Worke

All candidates for the Associate of Applied Science degree must complete 16 credits of General Education, 8 of which can be specified by the department issuing the degree. The 16 credits must include at least 1 course, with no more than 8 credits from the following three categories:

1. Arts and Humanities
2. Mathematics, Natural and Physical sciences, Social Science
3. Social Science

List Degree/Certificate Coursework:

Course Number	**Sample Course Title**	**Credit**
CAS 110	Intro to Web Graphic-Fireworks	1

CAS 175	Introduction to Flash	3
Total Credits		4

Course Number	Course Title	Credit
Total Credits		

For <u>New Certificate's of 45 credits or more</u>: Fill out Template for Related Instruction (http://www.pcc.edu/resources/academic/eac/degree/forms.html).

Impact on Other Areas of Instruction:

Have you talked to other area SACs?

☒ No ☐ Yes If Yes, explain how

Contact Information:

Submitted by: Katrina Cloud

Contact e-mail: kcloud@pcc.edu

Next Steps:

1. a. Save completed New AAS Degree/Certificate Request Form and Submit as an email attachment to curriculum@pcc.edu.
   b. If needed, attach Related Instruction Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) to the same email.

2. Download and print New AAS Degree/Certificate Signature Page Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) and get the appropriate signatures.

3. Staple signed New AAS Degree/Certificate Signature Page Form to a hard copy of New AAS Degree/Certificate Request Form (electronic version has already been sent in Step 1). Send both forms to Curriculum Office, Rock Creek Campus, Building 5, Room 114 via campus mail.

PORTLAND COMMUNITY COLLEGE

New Associate of Applied Science (AAS) Degree or Certificate Request Form

Proposed Degree/Certificate Title: Associate of Applied Science in Industrial Mechanics & Maintenance Technology Apprenticeship

Reason for New Degree/Certificate: Oregon Statewide Apprenticeship Degree - Maintenance Pathway

Requested Implementation Term: Summer 2008

Has Degree/Certificate been validated by the Advisory Committee?
☒ Yes ☐ No If No, explain

Proposed Degree/Certificate addresses the following Core PCC Outcomes:
(*check all that apply*)
☒ Communication
☒ Community and Environmental Responsibility
☒ Critical Thinking and Problem Solving
☐ Cultural Awareness
☒ Professional Competence
☒ Self-Reflection

List Degree/Certificate Outcomes:

Sample Outcomes
• Demonstrate an ability to analyze one's own subjective experience, interpersonal relationships, and the social-cultural context. • Upload, test and deploy web pages containing JavaScript

New Degree/Certificate Outcomes
• Complete a minimum of 4000 or 8000 hours State of Oregon approved on-the Job Training (OJT) - Hours vary by trade • Repair, install, and maintain a variety of industrial equipment using trade specific tools and techniques in compliance with state regulations for the Air Frame and Power Plant Technician, Boiler Operator, Programmable Logic Controller, Boiler/Turbine Operator, Die Cast Mold, Heat and Frost Insulator, Industrial Mobile Mechanic, Instrumentation Technician, Machinist, Millwright, Motor Winder, Pipefitter, Roll Turner, and Welder

All candidates for the Associate of Applied Science degree must complete 16 credits of General Education, 8 of which can be specified by the department issuing the degree. The 16 credits must include at least 1 course, with no more than 8 credits from the following three categories:

1. Arts and Humanities
2. Mathematics, Natural and Physical sciences, Social Science
3. Social Science

List Degree/Certificate Coursework:

Course Number	Sample Course Title	Credit
CAS 110 CAS 175	Intro to Web Graphic-Fireworks Introduction to Flash	1 3
Total Credits		4

Course Number	Course Title	Credit
Total Credits		

For <u>New Certificate's of 45 credits or more</u>: Fill out Template for Related Instruction (http://www.pcc.edu/resources/academic/eac/degree/forms.html).

Impact on Other Areas of Instruction:

Have you talked to other area SACs?

☒ No ☐ Yes If Yes, explain how

Contact Information:

Submitted by: Katrina Cloud

Contact e-mail: kcloud@pcc.edu

Next Steps:

1. a. Save completed New AAS Degree/Certificate Request Form and Submit as an email attachment to curriculum@pcc.edu.
   b. If needed, attach Related Instruction Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) to the same email.

2. Download and print New AAS Degree/Certificate Signature Page Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) and get the appropriate signatures.

3. Staple signed New AAS Degree/Certificate Signature Page Form to a hard copy of New AAS Degree/Certificate Request Form (electronic version has already been sent in Step 1). Send both forms to Curriculum Office, Rock Creek Campus, Building 5, Room 114 via campus mail.

PORTLAND COMMUNITY COLLEGE

New Associate of Applied Science (AAS) Degree or Certificate Request Form

Proposed Degree/Certificate Title: Associate of Applied Science in Industrial Mechanics & Maintenance Technology Apprenticeship

Reason for New Degree/Certificate: Oregon Statewide Apprenticeship Degree - Maintenance Pathway

Requested Implementation Term: Summer 2008

Has Degree/Certificate been validated by the Advisory Committee?
☒ Yes ☐ No If No, explain

Proposed Degree/Certificate addresses the following Core PCC Outcomes:
(*check all that apply*)
☒ Communication
☒ Community and Environmental Responsibility
☒ Critical Thinking and Problem Solving
☐ Cultural Awareness
☒ Professional Competence
☒ Self-Reflection

List Degree/Certificate Outcomes:

Sample Outcomes
• Demonstrate an ability to analyze one's own subjective experience, interpersonal relationships, and the social-cultural context. • Upload, test and deploy web pages containing JavaScript

New Degree/Certificate Outcomes
• Complete a minimum of 4000 or 8000 hours State of Oregon approved on-the Job Training (OJT) - Hours vary by trade • Repair, install, and maintain a variety of industrial equipment using trade specific tools and techniques in compliance with state regulations for the Air Frame and Power Plant Technician, Boiler Operator, Programmable Logic Controller, Boiler/Turbine Operator, Die Cast Mold, Heat and Frost Insulator, Industrial Mobile Mechanic, Instrumentation Technician, Machinist, Millwright, Motor Winder, Pipefitter, Roll Turner, and Welder

All candidates for the Associate of Applied Science degree must complete 16 credits of General Education, 8 of which can be specified by the department issuing the degree. The 16 credits must include at least 1 course, with no more than 8 credits from the following three categories:

1. Arts and Humanities
2. Mathematics, Natural and Physical sciences, Social Science
3. Social Science

List Degree/Certificate Coursework:

Course Number	Sample Course Title	Credit
CAS 110 CAS 175	Intro to Web Graphic-Fireworks Introduction to Flash	1 3
Total Credits		4

Course Number	Course Title	Credit
Total Credits		

For <u>New Certificate's of 45 credits or more</u>: Fill out Template for Related Instruction (http://www.pcc.edu/resources/academic/eac/degree/forms.html).

Impact on Other Areas of Instruction:

Have you talked to other area SACs?

☒ No ☐ Yes If Yes, explain how

Contact Information:

Submitted by: Katrina Cloud

Contact e-mail: kcloud@pcc.edu

Next Steps:

1. a. Save completed New AAS Degree/Certificate Request Form and Submit as an email attachment to curriculum@pcc.edu.
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PORTLAND COMMUNITY COLLEGE

New Associate of Applied Science (AAS) Degree or Certificate Request Form

Proposed Degree/Certificate Title: Certificate of Completion in Industrial Mechanics & Maintenance Technology Apprenticeship

Reason for New Degree/Certificate: Oregon Statewide Apprenticeship Certificate - Maintenance Pathway

Requested Implementation Term: Summer 2008

Has Degree/Certificate been validated by the Advisory Committee?
☒ Yes ☐ No If No, explain

Proposed Degree/Certificate addresses the following Core PCC Outcomes:
(*check all that apply*)
☒ Communication
☒ Community and Environmental Responsibility
☒ Critical Thinking and Problem Solving
☐ Cultural Awareness
☒ Professional Competence
☒ Self-Reflection

List Degree/Certificate Outcomes:

Sample Outcomes
• Demonstrate an ability to analyze one's own subjective experience, interpersonal relationships, and the social-cultural context. • Upload, test and deploy web pages containing JavaScript

New Degree/Certificate Outcomes
• Complete a minimum of 8000 hours State of Oregon approved on-the Job Training (OJT) - Hours vary by trade • Repair, install, and maintain a variety of industrial equipment using trade specific tools and techniques in compliance with state regulations for the Boiler/Turbine Operator, Die Cast Mold, Heat and Frost Insulator, Industrial Mobile Mechanic, Instrumentation Technician, Machinist, Millwright, Motor Winder, Pipefitter, Roll Turner, and Welder

All candidates for the Associate of Applied Science degree must complete 16 credits of General Education, 8 of which can be specified by the department issuing the degree. The 16 credits must include at least 1 course, with no more than 8 credits from the following three categories:

1. Arts and Humanities
2. Mathematics, Natural and Physical sciences, Social Science
3. Social Science

List Degree/Certificate Coursework:

Course Number	**Sample Course Title**	**Credit**

CAS 110 CAS 175	Intro to Web Graphic-Fireworks Introduction to Flash	1 3
Total Credits		4

Course Number	Course Title	Credit
Total Credits		

For <u>New Certificate's of 45 credits or more</u>: Fill out Template for Related Instruction (http://www.pcc.edu/resources/academic/eac/degree/forms.html).

Impact on Other Areas of Instruction:

Have you talked to other area SACs?

☒ No ☐ Yes If Yes, explain how

Contact Information:

Submitted by: Katrina Cloud

Contact e-mail: kcloud@pcc.edu

Next Steps:

1. a. Save completed New AAS Degree/Certificate Request Form and Submit as an email attachment to curriculum@pcc.edu.
   b. If needed, attach Related Instruction Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) to the same email.

2. Download and print New AAS Degree/Certificate Signature Page Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) and get the appropriate signatures.

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PORTLAND COMMUNITY COLLEGE

New Associate of Applied Science (AAS) Degree or Certificate Request Form

Proposed Degree/Certificate Title: Certificate of Completion in Industrial Mechanics & Maintenance Technology Apprenticeship

Reason for New Degree/Certificate: Oregon Statewide Apprenticeship Certificate - Maintenance Pathway

Requested Implementation Term: Summer 2008

Has Degree/Certificate been validated by the Advisory Committee?
☒ Yes ☐ No If No, explain

Proposed Degree/Certificate addresses the following Core PCC Outcomes:
(*check all that apply*)
☒ Communication
☒ Community and Environmental Responsibility
☒ Critical Thinking and Problem Solving
☐ Cultural Awareness
☒ Professional Competence
☒ Self-Reflection

List Degree/Certificate Outcomes:

Sample Outcomes
• Demonstrate an ability to analyze one's own subjective experience, interpersonal relationships, and the social-cultural context. • Upload, test and deploy web pages containing JavaScript

New Degree/Certificate Outcomes
• Complete a minimum of 8000 hours State of Oregon approved on-the Job Training (OJT) - Hours vary by trade • Repair, install, and maintain a variety of industrial equipment using trade specific tools and techniques in compliance with state regulations for the Boiler/Turbine Operator, Die Cast Mold, Heat and Frost Insulator, Industrial Mobile Mechanic, Instrumentation Technician, Machinist, Millwright, Motor Winder, Pipefitter, Roll Turner, and Welder

All candidates for the Associate of Applied Science degree must complete 16 credits of General Education, 8 of which can be specified by the department issuing the degree. The 16 credits must include at least 1 course, with no more than 8 credits from the following three categories:

1. Arts and Humanities
2. Mathematics, Natural and Physical sciences, Social Science
3. Social Science

List Degree/Certificate Coursework:

Course Number	**Sample Course Title**	**Credit**

CAS 110 CAS 175	Intro to Web Graphic-Fireworks Introduction to Flash	1 3
Total Credits		4

Course Number	Course Title	Credit
Total Credits		

For <u>New Certificate's of 45 credits or more</u>: Fill out Template for Related Instruction (http://www.pcc.edu/resources/academic/eac/degree/forms.html).

Impact on Other Areas of Instruction:

Have you talked to other area SACs?

☒ No ☐ Yes If Yes, explain how

Contact Information:

Submitted by: Katrina Cloud

Contact e-mail: kcloud@pcc.edu

Next Steps:

1. a. Save completed New AAS Degree/Certificate Request Form and Submit as an email attachment to curriculum@pcc.edu.
   b. If needed, attach Related Instruction Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) to the same email.

2. Download and print New AAS Degree/Certificate Signature Page Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) and get the appropriate signatures.

3. Staple signed New AAS Degree/Certificate Signature Page Form to a hard copy of New AAS Degree/Certificate Request Form (electronic version has already been sent in Step 1). Send both forms to Curriculum Office, Rock Creek Campus, Building 5, Room 114 via campus mail.

PORTLAND COMMUNITY COLLEGE

Associate of Applied Science/Certificate
Revision Request Form

Current Degree/Certificate Title: AAS Radiologice Technology
Proposed Degree/Certificate Title: same

Reason for Revision:
Health care is changing, the national curriculum is changing and the advisory board would like to see the program stay current for the field.

Request Implementation Term: Fall 08

List Current Degree/Certificate Prerequisites:
Sample

Course Number	Course Title	Credit
CAS 110	Intro to Web Graphic-Fireworks	1
CAS 175	Introduction to Flash	3

Current

Course Number	Course Title	Credit
WR 121	English Composition	4
MTH 111	College Algebra B or C	5
BI 231	Anatomy & Physiology I	4
BI 232	Anatomy & Physiology II	4
BI 233	Anatomy & Physiology III	4
MP 111	Medical Terminology	4

Does Revision involve changing Degree/Certificate Prerequisites?
☒ No ☐ Yes

If Yes, please list proposed prerequisites:
Proposed

Course Number	Course Title	Credit

Does Revision impact PCC Core Outcomes which Degree and/or Certificates support?
☒ No ☐ Yes
If Yes, explain:

List Current Degree/Certificate Outcomes: (REQUIRED whether or not Outcomes are changing)
Sample

Current Degree/Certificate Outcome
• Develop JavaScript extensions to web pages • Upload, test and deploy web pages containing JavaScript

Current Degree/Certificate Outcome
• Graduate students with effective communication skills

- Provide appropriate care that ensures the safety, comfort, and ongoing assessment/response to the patient's condition
- Display ethical behaviors in the clinical setting
- Demonstrate problem-solving and creitcal thinking skills in the clinical setting
- Meet the needs of the radiography community
- Prepare students to become entry-level radiographers
- Successfully pass ARRT examination

Does Revision involve changing Degree/Certificate Outcomes?
☒ No ☐ Yes

If Yes, list proposed outcomes:

Proposed Degree/Certificate Outcome
•

For Certificates, does Revision involve changing Related Instruction?
☒ No ☐ Yes
If Yes, Fill out Template for Related Instruction
(http://www.pcc.edu/resources/academic/eac/degree/forms.html).

All candidates for the Associate of Applied Science degree must complete 16 credits of General Education, 8 of which can be specified by the department issuing the degree. The 16 credits must include at least 1 course, with no more than 8 credits from the following three categories:

1. Arts and Humanities
2. Mathematics, Natural and Physical sciences, Social Science
3. Social Science

Does Revision involve changing coursework requirements?
☐ No ☒ Yes

If Yes, please list **ALL** current and proposed coursework:
Sample

Course Number	Course Title	Credit
CAS 110	Intro to Web Graphic-Fireworks	1
CAS 175	Introduction to Flash	3

Current

Course Number	Course Title	Credit
	First Term	
RAD100	Introduction to Radiology	2
RAD 101	Radiographic Positioning I	3
RAD 105	Methods of Patient Care	3
RAD 106	Radiolographic Equipment I	4
RAD 110	Radiographic Clinic I	1
HE 110	Cardiopulmonary Resuscitation	
	Second Term	
RAD 102	Radiographic Positioning II	3
RAD 107	Radiolographic Equipment II	4
RAD 115	Principles of Exposure I	3
RAD 120	Radiographic Clinic II	4
	Third Term	

RAD 103	Radiographic Positioning III	3
RAD 122	Radiation Protection - Biology	3
RAD 130	Radiographic Clinic III	4
RAD 132	Radiographic Image Production	3
	Fourth Term	
RAD 140	Radiographic Clinic IV 10	10
	Fifth Term	
RAD 209	Advanced Radiographic Procedures	4
RAD 210	Radiographic Clinic V	6
RAD 215	Principles of Exposure II	3
	Sixth Term	
RAD 205	Radiographic Positioning V	3
RAD 211	Advanced Imaging Modalities	4
RAD 220	Radiographic Clinic VI	6
	Seventh Term	
RAD 206	Survey of Medical Imaging Diseases	3
RAD 230	Radiographic Clinic VII	10
	Eighth Term	
RAD 240	Radiographic Clinic VIII	8
RAD 216	Radiography Registry Review	2

Proposed

Course Number	Course Title	Credit
RAD 209	Advance Radiographic Procedures	2
RAD 203	Applied Radiography Topics	2

Total Number of Credits in Degree/Certificate:

Current Credits: 118
Proposed Credits: 118

Contact Information:

Submitted by: Barbara Smith
Contact e-mail: bsmith

Next Steps:

1. a. Save completed Associate of Applied Science/Certificate Revision Request Form and Submit as an email attachment to curriculum@pcc.edu.
   b. If needed, attach Related Instruction Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) to the same email.

2. Download and print Associate of Applied Science/Certificate Revision Signature Page Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) and get the appropriate signatures.

3. Staple signed Associate of Applied Science/Certificate Revision Signature Page Form to a hard copy of Associate of Applied Science/Certificate Revision Request Form (electronic version has already been sent in Step 1). Send both forms to Curriculum Office, Rock Creek Campus, Building 5, Room 114 via campus mail.

PORTLAND COMMUNITY COLLEGE

Associate of Applied Science/Certificate
Revision Request Form

Current Degree/Certificate Title: AAS in Microelectronics Technology
Proposed Degree/Certificate Title: AAS In Microelectronics Technology: PV Option

Reason for Revision:
Option request by industry and Advisory Committee

Request Implementation Term: F08

List Current Degree/Certificate Prerequisites:
Sample

Course Number	Course Title	Credit
CAS 110	Intro to Web Graphic-Fireworks	1
CAS 175	Introduction to Flash	3

Current

Course Number	Course Title	Credit

Does Revision involve changing Degree/Certificate Prerequisites?
☒ No ☐ Yes

If Yes, please list proposed prerequisites:
Proposed

Course Number	Course Title	Credit

Does Revision impact PCC Core Outcomes which Degree and/or Certificates support?
☒ No ☐ Yes
If Yes, explain:

List Current Degree/Certificate Outcomes: (REQUIRED whether or not Outcomes are changing)
Sample

Current Degree/Certificate Outcome
• Develop JavaScript extensions to web pages • Upload, test and deploy web pages containing JavaScript

Current Degree/Certificate Outcome
install and maintain manufacturing and testing systems and equipment, troubleshoot circuit and systems monitor and maintain semiconductor manufacturing process work effectively in teams • communicate effectively with colleagues and vendors

Does Revision involve changing Degree/Certificate Outcomes?
☒ No ☐ Yes

If Yes, list proposed outcomes:

Proposed Degree/Certificate Outcome
install and maintain manufacturing and testing systems and equipment, troubleshoot circuit and systems monitor and maintain PV cell manufacturing process work effectively in teams • communicate effectively with colleagues and vendors

For Certificates, does Revision involve changing Related Instruction?
☐ No ☐ Yes
If Yes, Fill out Template for Related Instruction
(http://www.pcc.edu/resources/academic/eac/degree/forms.html).

All candidates for the Associate of Applied Science degree must complete 16 credits of General Education, 8 of which can be specified by the department issuing the degree. The 16 credits must include at least 1 course, with no more than 8 credits from the following three categories:

1. Arts and Humanities
2. Mathematics, Natural and Physical sciences, Social Science
3. Social Science

Does Revision involve changing coursework requirements?
☐ No ☒ Yes

If Yes, please list **ALL** current and proposed coursework:
Sample

Course Number	Course Title	Credit
CAS 110	Intro to Web Graphic-Fireworks	1
CAS 175	Introduction to Flash	3

Current

Course Number	Course Title	Credit
	See attached material	

Proposed

Course Number	Course Title	Credit
	See attached material	

Total Number of Credits in Degree/Certificate:
Current Credits: 101
Proposed Credits: 96

Contact Information:
Submitted by: Dorina Cornea Hasegan
Contact e-mail: dcorneah@pcc.edu

Next Steps:

1. a. Save completed Associate of Applied Science/Certificate Revision Request Form and Submit as an email attachment to curriculum@pcc.edu.
   b. If needed, attach Related Instruction Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) to the same email.

2. Download and print Associate of Applied Science/Certificate Revision Signature Page Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) and get the appropriate signatures.

3. Staple signed Associate of Applied Science/Certificate Revision Signature Page Form to a hard copy of Associate of Applied Science/Certificate Revision Request Form (electronic version has already been sent in Step 1). Send both forms to Curriculum Office, Rock Creek Campus, Building 5, Room 114 via campus mail.

PORTLAND COMMUNITY COLLEGE

New Associate of Applied Science (AAS) Degree or Certificate Request Form

Proposed Degree/Certificate Title: Wireless and Data Communication Engineering Technology

Reason for New Degree/Certificate: This is an EET option. The reason for the new degree is to accommodate the job market in this field and assist our EET program with its growth plan.

Requested Implementation Term: spring/fall 2008

Has Degree/Certificate been validated by the Advisory Committee?
☒ Yes ☐ No If No, explain

Proposed Degree/Certificate addresses the following Core PCC Outcomes:
(*check all that apply*)
☒ Communication
☐ Community and Environmental Responsibility
☒ Critical Thinking and Problem Solving
☐ Cultural Awareness
☒ Professional Competence
☐ Self-Reflection

List Degree/Certificate Outcomes:

Sample Outcomes
• Demonstrate an ability to analyze one's own subjective experience, interpersonal relationships, and the social-cultural context. • Upload, test and deploy web pages containing JavaScript

New Degree/Certificate Outcomes
• Upon completion of this EET option graduates should be able to work in the wireless and data communication industry (ex. radio frequency, cellular, fiber-optics, satellite, commercial broadcast, data networking, and others). They install, repair and maintain a large variety of communication equipment.

All candidates for the Associate of Applied Science degree must complete 16 credits of General Education, 8 of which can be specified by the department issuing the degree. The 16 credits must include at least 1 course, with no more than 8 credits from the following three categories:

1. Arts and Humanities
2. Mathematics, Natural and Physical sciences, Social Science
3. Social Science

List Degree/Certificate Coursework:

Course Number	**Sample Course Title**	**Credit**
CAS 110	Intro to Web Graphic-Fireworks	1
CAS 175	Introduction to Flash	3
Total Credits		4

Course Number	Course Title	Credit
EET 111	Electric Circuit Analysis I	5
EET 121	Digital Systems I	3
MTH 111C	College Algebra	5
WR 121	English Composition	4
EET 112	Electric Circuit Analysis II	5
EET 122	Digital Systems II	3
EET 188	Industrial Safety	1
MTH 112	Elementary Functions	5
	Gen Ed–Arts and Humanities	4
EET 113	Electric Circuit Analysis III	5
EET 123	Digital Systems III	5
EET 178	PC Architecture for Tech	4
CS 133U	Intro to C	4
EET 221	Semiconductor Devices	5
EET 241	Microcomputer Systems	4
MTH 243	Statistics	4
	Gen Ed-Social Science	4
EET 222	Op-Amp Circuits	5
EET 242	Microcontroller Systems	4
CIS 188	Wireless	4
EET 254	Seminar	1
CIS 179	Data Communication I	4
EET 223	RF Communications Circuits	5
EET 255	Industrial Control Systems	4
EET 256	Project Lab	2
CIS 189	Wireless Security	4
CIS 278	Data Communication II	4
Total Credits		107

For <u>New Certificate's of 45 credits or more</u>: Fill out Template for Related Instruction (http://www.pcc.edu/resources/academic/eac/degree/forms.html).

Impact on Other Areas of Instruction:

Have you talked to other area SACs?

☐ No ☒ Yes If Yes, explain how Computer department-OK with them

Contact Information:

Submitted by: Sanda Williams

Contact e-mail: sanda.williams@pcc.edu

Next Steps:

1. a. Save completed New AAS Degree/Certificate Request Form and Submit as an email attachment to curriculum@pcc.edu.
   b. If needed, attach Related Instruction Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) to the same email.

2. Download and print New AAS Degree/Certificate Signature Page Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) and get the appropriate signatures.

3. Staple signed New AAS Degree/Certificate Signature Page Form to a hard copy of New AAS Degree/Certificate Request Form (electronic version has already been sent in Step

1). Send both forms to Curriculum Office, Rock Creek Campus, Building 5, Room 114 via campus mail.

PORTLAND COMMUNITY COLLEGE

Associate of Applied Science/Certificate
Revision Request Form

Current Degree/Certificate Title: Biomedical Engineering Technology
Proposed Degree/Certificate Title: NO Change

Reason for Revision:
Proposed Program Prerequisites: MP 111 and either (BI 122/122) or BI 231/232/233)

Request Implementation Term: winter/spring 2008

List Current Degree/Certificate Prerequisites:
Sample

Course Number	Course Title	Credit
CAS 110	Intro to Web Graphic-Fireworks	1
CAS 175	Introduction to Flash	3

Current

Course Number	Course Title	Credit

Does Revision involve changing Degree/Certificate Prerequisites?
☐ No ☐ Yes

If Yes, please list proposed prerequisites:
Proposed

Course Number	Course Title	Credit

Does Revision impact PCC Core Outcomes which Degree and/or Certificates support?
☒ No ☐ Yes
If Yes, explain:

List Current Degree/Certificate Outcomes: (<u>REQUIRED</u> whether or not Outcomes are changing)
Sample

Current Degree/Certificate Outcome
• Develop JavaScript extensions to web pages • Upload, test and deploy web pages containing JavaScript

Current Degree/Certificate Outcome
•

Does Revision involve changing Degree/Certificate Outcomes?
☒ No ☐ Yes

If Yes, list proposed outcomes:

Proposed Degree/Certificate Outcome
•

For Certificates, does Revision involve changing Related Instruction?
☒ No ☐ Yes
If Yes, Fill out Template for Related Instruction
(http://www.pcc.edu/resources/academic/eac/degree/forms.html).

All candidates for the Associate of Applied Science degree must complete 16 credits of General Education, 8 of which can be specified by the department issuing the degree. The 16 credits must include at least 1 course, with no more than 8 credits from the following three categories:

1. Arts and Humanities
2. Mathematics, Natural and Physical sciences, Social Science
3. Social Science

Does Revision involve changing coursework requirements?
☒ No ☐ Yes

If Yes, please list **ALL** current and proposed coursework:
Sample

Course Number	Course Title	Credit
CAS 110	Intro to Web Graphic-Fireworks	1
CAS 175	Introduction to Flash	3

Current

Course Number	Course Title	Credit

Proposed

Course Number	Course Title	Credit

Total Number of Credits in Degree/Certificate:
Current Credits:
Proposed Credits:

Contact Information:
Submitted by: sanda williams
Contact e-mail: sanda.williams@pcc.edu

Next Steps:
1. a. Save completed Associate of Applied Science/Certificate Revision Request Form and Submit as an email attachment to curriculum@pcc.edu.
   b. If needed, attach Related Instruction Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) to the same email.

2. Download and print Associate of Applied Science/Certificate Revision Signature Page Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) and get the appropriate signatures.

3. Staple signed Associate of Applied Science/Certificate Revision Signature Page Form to a hard copy of Associate of Applied Science/Certificate Revision Request Form (electronic version has already been sent in Step 1). Send both forms to Curriculum Office, Rock Creek Campus, Building 5, Room 114 via campus mail.

PORTLAND COMMUNITY COLLEGE

New Associate of Applied Science (AAS) Degree or Certificate Request Form

Proposed Degree/Certificate Title: Wireless and Data Communication Engineering Technology

Reason for New Degree/Certificate: This is an EET option. The reason for the new degree is to accommodate the job market in this field and assist our EET program with its growth plan.

Requested Implementation Term: spring/fall 2008

Has Degree/Certificate been validated by the Advisory Committee?
☒ Yes ☐ No If No, explain

Proposed Degree/Certificate addresses the following Core PCC Outcomes:
(*check all that apply*)
☒ Communication
☐ Community and Environmental Responsibility
☒ Critical Thinking and Problem Solving
☐ Cultural Awareness
☒ Professional Competence
☐ Self-Reflection

List Degree/Certificate Outcomes:

Sample Outcomes
• Demonstrate an ability to analyze one's own subjective experience, interpersonal relationships, and the social-cultural context. • Upload, test and deploy web pages containing JavaScript

New Degree/Certificate Outcomes
• Upon completion of this EET option graduates should be able to work in the wireless and data communication industry (ex. radio frequency, cellular, fiber-optics, satellite, commercial broadcast, data networking, and others). They install, repair and maintain a large variety of communication equipment.

All candidates for the Associate of Applied Science degree must complete 16 credits of General Education, 8 of which can be specified by the department issuing the degree. The 16 credits must include at least 1 course, with no more than 8 credits from the following three categories:

1. Arts and Humanities
2. Mathematics, Natural and Physical sciences, Social Science
3. Social Science

List Degree/Certificate Coursework:

Course Number	**Sample Course Title**	**Credit**
CAS 110	Intro to Web Graphic-Fireworks	1
CAS 175	Introduction to Flash	3
Total Credits		4

Course Number	Course Title	Credit
EET 111	Electric Circuit Analysis I	5
EET 121	Digital Systems I	3
MTH 111C	College Algebra	5
WR 121	English Composition	4
EET 112	Electric Circuit Analysis II	5
EET 122	Digital Systems II	3
EET 188	Industrial Safety	1
MTH 112	Elementary Functions	5
	Gen Ed–Arts and Humanities	4
EET 113	Electric Circuit Analysis III	5
EET 123	Digital Systems III	5
EET 178	PC Architecture for Tech	4
CS 133U	Intro to C	4
EET 221	Semiconductor Devices	5
EET 241	Microcomputer Systems	4
MTH 243	Statistics	4
	Gen Ed-Social Science	4
EET 222	Op-Amp Circuits	5
EET 242	Microcontroller Systems	4
CIS 188	Wireless	4
EET 254	Seminar	1
CIS 179	Data Communication I	4
EET 223	RF Communications Circuits	5
EET 255	Industrial Control Systems	4
EET 256	Project Lab	2
CIS 189	Wireless Security	4
CIS 278	Data Communication II	4
Total Credits		107

For <u>New Certificate's of 45 credits or more</u>: Fill out Template for Related Instruction (http://www.pcc.edu/resources/academic/eac/degree/forms.html).

Impact on Other Areas of Instruction:

Have you talked to other area SACs?

☐ No ☒ Yes If Yes, explain how Computer department-OK with them

Contact Information:

Submitted by: Sanda Williams

Contact e-mail: sanda.williams@pcc.edu

Next Steps:

1. a. Save completed New AAS Degree/Certificate Request Form and Submit as an email attachment to curriculum@pcc.edu.
   b. If needed, attach Related Instruction Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) to the same email.

2. Download and print New AAS Degree/Certificate Signature Page Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) and get the appropriate signatures.

3. Staple signed New AAS Degree/Certificate Signature Page Form to a hard copy of New AAS Degree/Certificate Request Form (electronic version has already been sent in Step

1). Send both forms to Curriculum Office, Rock Creek Campus, Building 5, Room 114 via campus mail.

PORTLAND COMMUNITY COLLEGE

Associate of Applied Science/Certificate
Revision Request Form

Current Degree/Certificate Title: Biomedical Engineering Technology
Proposed Degree/Certificate Title: NO Change

Reason for Revision:
Proposed Program Prerequisites: MP 111 and either (BI 122/122) or BI 231/232/233)

Request Implementation Term: winter/spring 2008

List Current Degree/Certificate Prerequisites:
Sample

Course Number	Course Title	Credit
CAS 110	Intro to Web Graphic-Fireworks	1
CAS 175	Introduction to Flash	3

Current

Course Number	Course Title	Credit

Does Revision involve changing Degree/Certificate Prerequisites?
☐ No ☐ Yes

If Yes, please list proposed prerequisites:
Proposed

Course Number	Course Title	Credit

Does Revision impact PCC Core Outcomes which Degree and/or Certificates support?
☒ No ☐ Yes
If Yes, explain:

List Current Degree/Certificate Outcomes: (<u>REQUIRED</u> whether or not Outcomes are changing)
Sample

Current Degree/Certificate Outcome
• Develop JavaScript extensions to web pages • Upload, test and deploy web pages containing JavaScript

Current Degree/Certificate Outcome
•

Does Revision involve changing Degree/Certificate Outcomes?
☒ No ☐ Yes

If Yes, list proposed outcomes:

Proposed Degree/Certificate Outcome
•

For Certificates, does Revision involve changing Related Instruction?
☒ No ☐ Yes
If Yes, Fill out Template for Related Instruction
(http://www.pcc.edu/resources/academic/eac/degree/forms.html).

All candidates for the Associate of Applied Science degree must complete 16 credits of General Education, 8 of which can be specified by the department issuing the degree. The 16 credits must include at least 1 course, with no more than 8 credits from the following three categories:

1. Arts and Humanities
2. Mathematics, Natural and Physical sciences, Social Science
3. Social Science

Does Revision involve changing coursework requirements?
☒ No ☐ Yes

If Yes, please list **ALL** current and proposed coursework:
Sample

Course Number	Course Title	Credit
CAS 110	Intro to Web Graphic-Fireworks	1
CAS 175	Introduction to Flash	3

Current

Course Number	Course Title	Credit

Proposed

Course Number	Course Title	Credit

Total Number of Credits in Degree/Certificate:
Current Credits:
Proposed Credits:

Contact Information:
Submitted by: sanda williams
Contact e-mail: sanda.williams@pcc.edu

Next Steps:
1. a. Save completed Associate of Applied Science/Certificate Revision Request Form and Submit as an email attachment to curriculum@pcc.edu.
   b. If needed, attach Related Instruction Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) to the same email.

2. Download and print Associate of Applied Science/Certificate Revision Signature Page Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) and get the appropriate signatures.

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PORTLAND COMMUNITY COLLEGE

Associate of Applied Science/Certificate
Revision Request Form

Current Degree/Certificate Title: Electronic Engineering Technology
Proposed Degree/Certificate Title: NO Change

Reason for Revision:
Proposed program prerequisites change: All students must have an advising interview with an EET faculty
advisor. Placement in WR 115 is required. Placement into MTH
95 is the minimum prerequisite. Completion of MTH 95 is recommended.
Basic computer skills in the Windows operating system,
word processing and spreadsheets are required.

Request Implementation Term: winter/spring 2008

List Current Degree/Certificate Prerequisites:
Sample

Course Number	Course Title	Credit
CAS 110	Intro to Web Graphic-Fireworks	1
CAS 175	Introduction to Flash	3

Current

Course Number	Course Title	Credit

Does Revision involve changing Degree/Certificate Prerequisites?
☐ No ☐ Yes

If Yes, please list proposed prerequisites:
Proposed

Course Number	Course Title	Credit

Does Revision impact PCC Core Outcomes which Degree and/or Certificates support?
☒ No ☐ Yes
If Yes, explain:

List Current Degree/Certificate Outcomes: (REQUIRED whether or not Outcomes are changing)
Sample

Current Degree/Certificate Outcome
• Develop JavaScript extensions to web pages • Upload, test and deploy web pages containing JavaScript

Current Degree/Certificate Outcome
•

Does Revision involve changing Degree/Certificate Outcomes?
☐ No ☐ Yes

If Yes, list proposed outcomes:

Proposed Degree/Certificate Outcome
•

For Certificates, does Revision involve changing Related Instruction?
☒ No ☐ Yes
If Yes, Fill out Template for Related Instruction
(http://www.pcc.edu/resources/academic/eac/degree/forms.html).

All candidates for the Associate of Applied Science degree must complete 16 credits of General Education, 8 of which can be specified by the department issuing the degree. The 16 credits must include at least 1 course, with no more than 8 credits from the following three categories:

1. Arts and Humanities
2. Mathematics, Natural and Physical sciences, Social Science
3. Social Science

Does Revision involve changing coursework requirements?
☒ No ☐ Yes

If Yes, please list **ALL** current and proposed coursework:
Sample

Course Number	Course Title	Credit
CAS 110	Intro to Web Graphic-Fireworks	1
CAS 175	Introduction to Flash	3

Current

Course Number	Course Title	Credit

Proposed

Course Number	Course Title	Credit

Total Number of Credits in Degree/Certificate:
Current Credits:
Proposed Credits:

Contact Information:
Submitted by: sanda williams
Contact e-mail: sanda.williams@pcc.edu

Next Steps:
1. a. Save completed Associate of Applied Science/Certificate Revision Request Form and Submit as an email attachment to curriculum@pcc.edu.

b. If needed, attach Related Instruction Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) to the same email.

2. Download and print Associate of Applied Science/Certificate Revision Signature Page Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) and get the appropriate signatures.

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PORTLAND COMMUNITY COLLEGE

Associate of Applied Science/Certificate
Revision Request Form

Current Degree/Certificate Title: AAS: Aviation Science - Airplane (Flight Instructor Specialization)
Proposed Degree/Certificate Title: AAS: Aviation Science - Airplane (Flight Instructor Specialization)

Reason for Revision:
Two new proposed courses (AVS 241 and 242) replace the current choices students have for completing their degree. These changes do not affect the AAS: Aviation Science - Helicopter, or the AAS: Aviation Science - Airplane (without Flight Instructor specialization).

Request Implementation Term: Fall 2008

List Current Degree/Certificate Prerequisites:
Sample

Course Number	Course Title	Credit
CAS 110	Intro to Web Graphic-Fireworks	1
CAS 175	Introduction to Flash	3

Current

Course Number	Course Title	Credit

Does Revision involve changing Degree/Certificate Prerequisites?
☒ No ☐ Yes

If Yes, please list proposed prerequisites:
Proposed

Course Number	Course Title	Credit

Does Revision impact PCC Core Outcomes which Degree and/or Certificates support?
☒ No ☐ Yes
If Yes, explain:

List Current Degree/Certificate Outcomes: (REQUIRED whether or not Outcomes are changing)
Sample

Current Degree/Certificate Outcome
• Develop JavaScript extensions to web pages • Upload, test and deploy web pages containing JavaScript

Current Degree/Certificate Outcome
AAS: Aviation Science • Earn FAA certificates and ratings appropriate to the pilot career they seek. For Airplane: a. Commercial Pilot certificate with airplane single- and multi-engine and instrument airplane ratings.

b. Flight Instructor certificate with airplane single- and multi-engine and instrument airplane ratings (If Flight Instructor specialization is chosen).

For Helicopter:
c. Commercial Pilot Certificate with Rotorcraft Helicopter and optional Instrument Helicopter rating.
d. Flight Instructor Rating with Rotorcraft Helicopter rating.
• Gain additional knowledge and skills related to the aviation industry and acting as a professional pilot that are above and beyond the FAA certification requirements and will allow them to be safer, more effective pilots and be competitive in the pilot job market.
• Explore areas in math, writing, general education and approved elective course work that will allow them to function more effectively as an aviation employee and/or continue their education towards advanced degrees.
AAS: Aviation Science - Helicopter
• Earn FAA certificates and ratings appropriate to the pilot career they seek.
For Helicopter:
a. Commercial Pilot Certificate with Rotorcraft Helicopter and optional Instrument Helicopter rating.
b. Flight Instructor Rating with Rotorcraft Helicopter rating.
• Gain additional knowledge and skills related to the aviation industry and acting as a professional pilot that are above and beyond the FAA certification requirements and will allow them to be safer, more effective pilots and be competitive in the pilot job market.
• Explore areas in math, writing, general education and approved elective course work that will allow them to function more effectively as an aviation employee and/or continue their education towards advanced degrees.
AAS: Aviation Science - Airplane
• Earn FAA certificates and ratings appropriate to the pilot career they seek.
For Airplane:
a. Commercial Pilot certificate with airplane single- and multi-engine and instrument airplane ratings.
b. Flight Instructor certificate with airplane single- and multi-engine and instrument airplane ratings (If Flight Instructor specialization is chosen).
• Gain additional knowledge and skills related to the aviation industry and acting as a professional pilot that are above and beyond the FAA certification requirements and will allow them to be safer, more effective pilots and be competitive in the pilot job market.
- • Explore areas in math, writing, general education and approved elective course work that will allow them to function more effectively as an aviation employee and/or continue their education towards advanced degrees.

Does Revision involve changing Degree/Certificate Outcomes?
☒ No ☐ Yes

If Yes, list proposed outcomes:

Proposed Degree/Certificate Outcome
•

For Certificates, does Revision involve changing Related Instruction?
☒ No ☐ Yes
If Yes, Fill out Template for Related Instruction (http://www.pcc.edu/resources/academic/eac/degree/forms.html).

All candidates for the Associate of Applied Science degree must complete 16 credits of General Education, 8 of which can be specified by the department issuing the degree. The 16 credits must include at least 1 course, with no more than 8 credits from the following three categories:

1. Arts and Humanities
2. Mathematics, Natural and Physical sciences, Social Science
3. Social Science

Does Revision involve changing coursework requirements?
☐ No ☒ Yes

If Yes, please list **ALL** current and proposed coursework:
Sample

Course Number	Course Title	Credit
CAS 110	Intro to Web Graphic-Fireworks	1
CAS 175	Introduction to Flash	3

Current

Course Number	Course Title	Credit
	First-year students follow the same course of study regardless of program option. At the end of the first year, students must decide whether or not to add the certified flight instructor specialization to their course of study.	
	*** First Year ***	
	AVS 120 Airplane: Private Pilot Ground	4
	AVS 125 Airplane: Private Pilot Flight	3
	AVS 127 Introduction to Aviation	4
	AVS 130 Instrument Ground School	4
	AVS 135 Airplane: Instrument Flight	3
	AVS 137 Applied Aerodynamics	4
	AVS 140 Airplane: Commercial Pilot Ground	4
	AVS 145 Intro to Commercial Airplane	3
	AVS 157 Aircraft Systems & Structures I: Airframe	3
	AVS 167 Aircraft Systems & Structures II: Powerplant	3
	GS 109 Meteorology	4
	General Education	9
	*** Second Year ***	
	Commercial pilot (w/ certified flight instructor specialization)	
	AVS 225 Airplane: Commercial Flight	4
	AVS 227 Aviation Careers	4
	AVS 230 Airplane: Certified Flight Instructor Ground	4
	AVS 235 Airplane: Certified Flight Instructor Flight	2
	AVS 237 Aviation Law and Regulations	4
	AVS 240 Airplane: CFII/MEI Ground	3
	AVS 245 Airplane: CFII/MEI Flight	2
	AVS 255 Airplane: Pilot Performance	1
	AVS 267 Economics of Flight Operations	4
	General Education	9
	Approved Electives	7
	Total second year:	44

Proposed

Course Number	Course Title	Credit
	First-year students follow the same course of study	

	regardless of program option. At the end of the first year, students must decide whether or not to add the certified flight instructor specialization to their course of study.	
	*** First Year ***	
	AVS 120 Airplane: Private Pilot Ground	4
	AVS 125 Airplane: Private Pilot Flight	3
	AVS 127 Introduction to Aviation	4
	AVS 130 Instrument Ground School	4
	AVS 135 Airplane: Instrument Flight	3
	AVS 137 Applied Aerodynamics	4
	AVS 140 Airplane: Commercial Pilot Ground	4
	AVS 145 Intro to Commercial Airplane	3
	AVS 157 Aircraft Systems & Structures I: Airframe	3
	AVS 167 Aircraft Systems & Structures II: Powerplant	3
	GS 109 Meteorology	4
	General Education	9
	*** Second Year ***	
	Commercial pilot (w/ certified flight instructor specialization)	
	AVS 225 Airplane: Commercial Flight	4
	AVS 227 Aviation Careers	4
	AVS 230 Airplane: Certified Flight Instructor Ground	4
	AVS 235 Airplane: Certified Flight Instructor Flight	2
	AVS 237 Aviation Law and Regulations	4
	AVS 241 Airplane: CFII Ground/Flight	3
	AVS 242 Airplane: MEI Ground/Flight	2
	AVS 255 Airplane: Pilot Performance	1
	AVS 267 Economics of Flight Operations	4
	General Education	9
	Approved Electives	7
	Total second year:	44

Total Number of Credits in Degree/Certificate:

Current Credits: 90
Proposed Credits: 90

Contact Information:

Submitted by: Katie Leonard
Contact e-mail: keleonar@pcc.edu

Next Steps:

1. a. Save completed Associate of Applied Science/Certificate Revision Request Form and Submit as an email attachment to curriculum@pcc.edu.
   b. If needed, attach Related Instruction Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) to the same email.

2. Download and print Associate of Applied Science/Certificate Revision Signature Page Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) and get the appropriate signatures.

3. Staple signed Associate of Applied Science/Certificate Revision Signature Page Form to a hard copy of Associate of Applied Science/Certificate Revision Request Form (electronic version has already been sent in Step 1). Send both forms to Curriculum Office, Rock Creek Campus, Building 5, Room 114 via campus mail.

BIT Program Revision

CURRENT **BIOTECHNOLOGY LABORATORY TECHNICAN**			*PROPOSED* **BIOSCIENCE TECHNOLOGY**		
BI 101 or 211	General Biology	4	BI 112 *	Cell Biol for Health Occupations	5
BI 102 or 212	General Biology	4	CH 104 *	Fundamentals for Chemistry	5
BI 103 or 213	General Biology	4	**May substitute BI 211 for 112, and CH221 for 104*		
CH 104 or 221	General Chemistry	5	Other Sci	Min 9 cr additional from list below	9
CH 105 or 222	General Chemistry	5		BI 211,212,213,234 (5 cr)	
CH 106 or 223	General Chemistry	5		CH 221,222,223,211 (5 cr)	
BI 234	Microbiology	5		PHY 201,202,203, MTH 243 (4 cr)	
CAS 170	Beginning Excel	3	CAS 170	Beginning Excel	3
General Ed	Arts and Hum and SS	9	General Ed	Arts and Hum, and SS	8
WR 121	English Composition	3	WR 121	English Composition	4
MTH 111	College Algebra	5	MTH 95	Intermediate Algebra	#
CG 209	Job Finding Skills	1			
Total for Science and Gen Requirements		**53**	**Total for Science and Gen Requirements**		**34**
	Foundation Courses	**14**		**Foundation Courses**	**17**
BIT 101	Introduction to Biotechnology	3	BIT 101	Intro to Bioscience Technology	4
BIT 105	Laboratory Safety	3	BIT 105*	Safety in Bioscience Workplace	2
BIT 107	Laboratory Math	3	BIT 107*	Bioscience Lab Math	2
BIT 109	Basic Lab Techs and Instrums	3	BIT 109*	Basic Lab Techs Instruments	5
BIT 225	Quality Systems Biotech	2	BIT 125	Quality Systems in Bioscience	2
			BIT 181	Exploring Bioscience	2
			**BIT 110*	*May substitute 105,107 and 109*	*9*
	Advanced Courses (Including 9 cr of BIT 280)	**43**		**Advanced Restricted Electives** (20 cr min from BIT lab course + 9 BIT 280)	**39**
BIT 201	Applied Immunology	4	BIT 201	Immunochemical Methods	5
BIT 205	Bioseparations I	4	BIT 205	Bioseparations	5
BIT 215	Bioseparations II	5	BIT 207	Protein Purification	5
BIT 221	Techniques in Molec Biol I	5	BIT 203	Recombinant DNA	5
BIT 223	Techniques in Molec Biol II	4	BIT 225	Advanced DNA Techniques	5
BIT 207	Tissue Culture I	4	BIT 207	Cell Culture	5
BIT 221	Tissue Culture II	4			
BIT 211	Biomolecular Principles	4			
			MT 111	Elec Circuits and Devices I	4
			MT 112	Elec Circuits and Devices II	4
			MT 113	Elec Circuits and Devices III	4
			MT 121	Digital Systems I	3
			MT 122	Digital Systems II	3
			MT 222	Quality Control Mthds in Manfu	3
BIT 280A	Work Experience	8	BIT 280A	Work Experience	8
BIT 280B	Work Experience Seminar	1	BIT 280B	Work Experience Seminar	1
TOTAL CREDITS		**110**	**TOTAL CREDITS**		**90**

<u>For PSU Transfer</u>: BI 112 BI 211; CH 104 CH 221
+25 cr coml. BI,CH and MTH 111 +16
106

PORTLAND COMMUNITY COLLEGE

Associate of Applied Science/Certificate
Revision Request Form

Current Degree/Certificate Title: Biotechnology Laboratory Technician
Proposed Degree/Certificate Title: Bioscience Technology

Reason for Revision:

The Biotechnology program is being reactivated after several years in suspension. Changes in the Bioscience industry and information obtained during the program review (completed the year before the suspension) suggested program revisions that will improve our ability to meet the needs of the bioscience industry, and of our students.

Several years ago the Oregon Biotechnology Association changed its name to Oregon Bioscience Association, reflective of a move to more broadly define this industry cluster. Now the organization represents a more diverse group of companies, including several larger medical device companies that identify with the "Bioscience" moniker more strongly. The OBA director and members of these other companies are represented on our Advisory Committee.

Increasing the breadth of the program leads to more opportunities for our graduates, as long as our program can be made more flexible with regards to specific content. We have worked to retain the elements of the program that were most successful in the past (nearly all of the graduates obtained jobs following the program, and most of those were in the research labs at OHSU). Course work has been reconfigured to met the needs of students who do not plan to continue for a BS degree, while still supporting those student who wish to transfer.

The three main categories of proposed changes, and the rationale for each, are below.

1) Changing the name of the program, and several of the course titles
From Biotechnology to Bioscience Technology, as discussed above. Some additional course title changes were made to better describe the content of the courses.

2) Redefining the basic science courses that students in the program must take.
The original design of the program required students to take one full year of Biology, and one full year of Chemistry. Although we soon learned that students need not have completed all of these courses to do well in the program, we kept them in because they were key to our transfer agreement with PSU (students completing the program have Jr status – in order to enjoy that status they needed to have these basic science sequences completed). While that is still the case we would like to offer a set of preparatory courses that would more efficiently get students through the degree. A minimal requirement of BIT 112, CH 104 and two additional science courses (BI, CH or PHY, depending on student interest) should provide sufficient background for student success. Students who wish to be on the "BS track" would be advised to take the full introductory sequences of 200-level BI and CH (instead of BI 112 and CH 104), and substitute MTH 111 for MTH 95. This would increase the total number of Credits to 106.

3) Reconfiguring the Foundation level course work
A new course, BIT 110, was developed in collaboration with Genentech and other local companies to address the most basic entry-level needs of the Bioscience community. As that course took shape, we found that it closely parallels our existing foundation sequence (BIT 105, 107 and 109). By making sure that the key elements of that sequence are included in BIT 110, it will be an appropriate prerequisite for the advanced BIT courses. We also have proposed mofications to BIT 109 to include some of the insdustry-specifed elements, and reflect the broader scope of Bioscience, as described above. Retaining the BIT 105, 107 and 109 along with BIT flexibiltiy in scheduling and modality that are anticipated to ease the point-of-entry bottleneck that has limited enrollment in the past.
We also added a Career Exploration and preparation course that is especially important given the breadth of the industry

4) Revising the BIT Advanced courses, and adding elective options.
All of the 200-level BIT courses were made 5 cr, as they are roughly equivalent in content depth and lab time required. The two that were least useful to the students will be retired, at least for the time being. Students will take 30 credits of 200-level work (plus an additional 9 credits of Work Experience + Seminar), but 10 of those can be in a related technical area. A list of restricted technical electives will include courses that are useful in a bio-manufacturing or related company, and we expect to modify the list as our integration with the Bioscience community develops.

Request Implementation Term: Fall 2008

List Current Degree/Certificate Prerequisites:
Sample

Course Number	Course Title	Credit
CAS 110 CAS 175	Intro to Web Graphic-Fireworks Introduction to Flash	1 3

Current

Course Number	Course Title	Credit
	Placement into MTH 95 Placement into WR 121	

Does Revision involve changing Degree/Certificate Prerequisites?
☒ No ☐ Yes

If Yes, please list proposed prerequisites:
Proposed

Course Number	Course Title	Credit

Does Revision impact PCC Core Outcomes which Degree and/or Certificates support?
☐ No ☒ Yes
If Yes, explain: The Outocmes Mapping has been changed to reflect the new courses.All of the core outcomes are addressed and to a level similar to that which was outlined prior to the revision.

List Current Degree/Certificate Outcomes: (<u>REQUIRED</u> whether or not Outcomes are changing)
Sample

Current Degree/Certificate Outcome
• Develop JavaScript extensions to web pages • Upload, test and deploy web pages containing JavaScript

Current Degree/Certificate Outcome
• Carry out routine laboratory tasks and commonly used techniques with confidence, quality and appropriate documentation. • Apply theoretical knowledge of assay principles and strategies, purification principles, and the scientific method to laboratory situations • Troubleshoot laboratory problems and devise appropriate solutions • Plan and organize tasks to allow efficient completion of complex procedures, including planning and carrying out multiple procedures that proceed simultaneously. Coordinate with others to work as part of a team.

• Effectively communicate the procedures, results and interpretations of laboratory activities to other scientific staff in several standard forms of scientific communication, including the laboratory notebook, written report, casual conference and formal presentation. • Demonstrate an appropriate attitude towards safety in the laboratory, and compliance that includes oneself, co-workers the work area and the laboratory environment.

Does Revision involve changing Degree/Certificate Outcomes?
☐ No ☒ Yes

If Yes, list proposed outcomes:

Proposed Degree/Certificate Outcome
• Apply knowledge of safety principles, quality/regulatory issues, teamwork and good business practices to work in a bioscience laboratory or manufacturing environment. • Carry out routine laboratory tasks and commonly used techniques with confidence, quality and appropriate documentation in a bioscience laboratory or manufacturing environment. • Apply knowledge of measurement and assay principles and strategies, purification principles, and the scientific method to laboratory situations. • Apply principles learned in courses to troubleshoot laboratory and manufacturing problems and devise and execute appropriate solutions. • Plan and organize tasks to allow efficient completion of complex procedures, including planning and executing multiple procedures that proceed simultaneously. Coordinate with others to work as part of a team. • Effectively, clearly and succinctly communicate the procedures, results and interpretations of laboratory activities to other staff in the bioscience workplace, using both informal and formal forms of scientific communication, including casual conference, the laboratory notebook, forms, memoranda, written reports and formal presentations.

For Certificates, does Revision involve changing Related Instruction?
☒ No ☐ Yes
If Yes, Fill out Template for Related Instruction
(http://www.pcc.edu/resources/academic/eac/degree/forms.html).

All candidates for the Associate of Applied Science degree must complete 16 credits of General Education, 8 of which can be specified by the department issuing the degree. The 16 credits must include at least 1 course, with no more than 8 credits from the following three categories:

1. Arts and Humanities
2. Mathematics, Natural and Physical sciences, Social Science
3. Social Science

Does Revision involve changing coursework requirements?
☐ No ☒ Yes

If Yes, please list **ALL** current and proposed coursework:
Sample

Course Number	Course Title	Credit
CAS 110	Intro to Web Graphic-Fireworks	1
CAS 175	Introduction to Flash	3

Current

Course Number	Course Title	Credit
	See attached for Current compared with Proposed	

Proposed

Course Number	Course Title	Credit
	Summary of Course Changes (see attached for side-by-side comparison of Current and Proposed courses): From 36 cr credits in BI + CH. to 19 cr min Gen Ed from 3 courses to 2 (9 cr to 8 cr) MTH 111 requirement changed to 95 (cr not counted) Eliminate CG 209 from required courses Revision of BIT courses to reflect bioscience focus BIT 101 (Intro to…) increase to 4 cr (add lab) Option to use BIT 110 instead of 105, 107 109 (9 cr) New course required BIT 181, Exploring Bioscience, 2 cr Quality Systems course number change (225 to 125) Revision of Advanced BIT courses to 5 cr Require min 20 cr 200-level BIT, 30 total "Tech" Identify Tech options for 10 cr of additional coursework	

Total Number of Credits in Degree/Certificate:

Current Credits: 110
Proposed Credits: 90 (106 for PSU Transfer)

Contact Information:

Submitted by: Kendra Cawley
Contact e-mail: kcawley@pcc.edu

Next Steps:

1. a. Save completed Associate of Applied Science/Certificate Revision Request Form and Submit as an email attachment to curriculum@pcc.edu.
   b. If needed, attach Related Instruction Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) to the same email.

2. Download and print Associate of Applied Science/Certificate Revision Signature Page Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) and get the appropriate signatures.

3. Staple signed Associate of Applied Science/Certificate Revision Signature Page Form to a hard copy of Associate of Applied Science/Certificate Revision Request Form (electronic version has already been sent in Step 1). Send both forms to Curriculum Office, Rock Creek Campus, Building 5, Room 114 via campus mail.

PORTLAND COMMUNITY COLLEGE

New Associate of Applied Science (AAS) Degree or Certificate Request Form

Proposed Degree/Certificate Title: Bioscience Technology: Biotechnician

Reason for New Degree/Certificate: Requested by Industry

When Genentech was considering locating a new facility in Oregon, partnership with Community college was high on their list of priorities, and especially interested in replicating a model developed by Skyline Community College (in South San Francisco), modifying it to meet the needs of the facility now under construction here (in Hillsboro). Their initial interest has been an intensive program to train the operators needed as this new operation ramps up, and the model they wished to see replicate called for a 12 cr, 10-12 week course of study. The content would include technical training, job/career readiness, and a strong emphasis on working in a regulated industry. They also wanted the course to award regular college credit, rather than be a fully customized non-credit program. However, they understood that if they were not planning to hire all of the students who completed the certificate, they would need to allow for a broader curriculum, and they further agreed to encourage other companies to join in the partnership with PCC.
The draft certificate curriculum was presented to the Oregon Bioscience Association in October, and several members have stepped forward to participate in guiding the curriculum and identifying positions within their organizations for which the certificate would enhance employability. The curriculum shown here has been approved by the new Bioscience Technology Advisory committee. In addition, the courses in this certificate are entirely within the AAS in Bioscience Technology

Requested Implementation Term: Fall 2008

Has Degree/Certificate been validated by the Advisory Committee?
☒ Yes ☐ No If No, explain

Proposed Degree/Certificate addresses the following Core PCC Outcomes:
(*check all that apply*)
☒ Communication
☒ Community and Environmental Responsibility
☒ Critical Thinking and Problem Solving
☒ Cultural Awareness
☒ Professional Competence
☒ Self-Reflection

List Degree/Certificate Outcomes:

Sample Outcomes
• Demonstrate an ability to analyze one's own subjective experience, interpersonal relationships, and the social-cultural context. • Upload, test and deploy web pages containing JavaScript

New Degree/Certificate Outcomes
• Work in compliance with safety principles to protect self, co-workers, the work area and the product in a bioscience workplace • Apply knowledge of quality/regulatory issues, teamwork and good business practices to work in a bioscience laboratory or manufacturing environment • Carry out common laboratory measurements, calculations and documentation of

work in a bioscience laboratory or manufacturing environment
- Effectively communicate the procedures, results and interpretations of laboratory and manufacturing activities to other staff in the bioscience workplace, using standard forms of scientific communication, including the laboratory notebook, forms, memoranda, and casual conference.
- Make informed decisions about career options, job readiness, and related education/training choices for the bioscience field.

All candidates for the Associate of Applied Science degree must complete 16 credits of General Education, 8 of which can be specified by the department issuing the degree. The 16 credits must include at least 1 course, with no more than 8 credits from the following three categories:

1. Arts and Humanities
2. Mathematics, Natural and Physical sciences, Social Science
3. Social Science

List Degree/Certificate Coursework:

Course Number	Sample Course Title	Credit
CAS 110	Intro to Web Graphic-Fireworks	1
CAS 175	Introduction to Flash	3
Total Credits		4

Course Number	Course Title	Credit
		9
BIT 110	Bioscience Basics	2
BIT 125	Quality Systems in Biotechnology	2
BIT 181	Exploring Bioscience	
Total Credits		13

For New Certificate's of 45 credits or more: Fill out Template for Related Instruction (http://www.pcc.edu/resources/academic/eac/degree/forms.html).

Impact on Other Areas of Instruction:

Have you talked to other area SACs?

☐ No ☒ Yes If Yes, explain how

We have been working with faculty in Microelectronics to develop some of the content needed for the new BIT 110 course. Although of manufacturing semiconductors is not the same as the process of finishing a biotech product, there are similarities in the principles and many of the practices of the Process Technology employed. Genentech has expressed interest in an AAS degree for a more advanced level of technician, with content that would combine some of the elements of BIT and MT.

Contact Information:

Submitted by: Kendra Cawley

Contact e-mail: kcawley

Next Steps:

1. a. Save completed New AAS Degree/Certificate Request Form and Submit as an email attachment to curriculum@pcc.edu.
   b. If needed, attach Related Instruction Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) to the same email.

2. Download and print New AAS Degree/Certificate Signature Page Form (http://www.pcc.edu/resources/academic/eac/degree/forms.html) and get the appropriate signatures.

3. Staple signed New AAS Degree/Certificate Signature Page Form to a hard copy of New AAS Degree/Certificate Request Form (electronic version has already been sent in Step 1). Send both forms to Curriculum Office, Rock Creek Campus, Building 5, Room 114 via campus mail.