

**Degrees and Certificates**  
**2pm-4pm Conference Room A**  
**June 3<sup>rd</sup>, 2009**

**Old Business:**

**2:00** Review of May 2009 DAC Minutes

**New Business:**

**2:15** Scott Huff to discuss 300 level courses allowed in PCC degrees

**2:30 Susanne/Kendra** – Related Instruction

**2:40 Susanne** - DAC Retreat

**3:00 Revision: Columbia Gorge CC - Renewable Energy Technology AAS:** Mary Kramer

**Revision: Columbia Gorge CC – Renewable Energy Technology Certificate:** Mary Kramer

**3:15 Revision: INSP Building Inspection Technology AAS:** Debra Anderson

**Revision: INSP Residential Structural and Mechanical Inspection and Plans Examination Certificate:** Debra Anderson

**Revision: INSP Commercial Structural and Mechanical Inspection Certificate:** Debra Anderson

**3:00 Revision: CAS/OS Website Development and Design Certificate:** Ron Bekey

**3:45 Revision: AVS Aviation Science - Airplane AAS:** Larry Altree

**Revision: AVS Aviation Science – Helicopter AAS:** Larry Altree

**4:00 Curriculum Report/Consent Agenda:** Steve Smith

**4:15 Registrar's Report:** Rebecca Mathern

**PORTLAND COMMUNITY COLLEGE**

**Associate of Applied Science/Certificate  
Revision Request Form**

**Current Degree/Certificate Title:** Renewable Energy Technology AAS Degree

**Proposed Degree/Certificate Title:** Same

**Reason for Revision:**

1. Per industry request, provide more targeted training in Excel, thus adding CAS 170 to curriculum and removing CAS 133 and making it a prerequisite.
2. Change course titles to reflect breadth of course content for all renewable energies, not just wind. Current RET 121: Wind Mechanical Systems I, change to RET 121: Mechanical Power Systems I; Current RET 122: Wind Mechanical Systems II, change to RET 122: Mechanical Power Systems II.
3. Credit total changes from 101 to 100.

**Request Implementation Term:** Fall 2009

<b>List Current Degree/Certificate Prerequisites:</b>		
<b>Sample</b>		
<b>Course Number</b>	<b>Course Title</b>	<b>Credit</b>
CAS 110	Intro to Web Graphic-Fireworks	1
CAS 175	Introduction to Flash	3

<b>Current</b>		
<b>Course Number</b>	<b>Course Title</b>	<b>Credit</b>

**Does Revision involve changing Degree/Certificate Prerequisites?**

- No       Yes

If Yes, please list proposed prerequisites:

**Proposed**

<b>Course Number</b>	<b>Course Title</b>	<b>Credit</b>
CAS 133	Basic Computer Skills/Microsoft Office	4

**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**

<b>Current Degree/Certificate Outcome</b>
<ul style="list-style-type: none"> <li>• Develop JavaScript extensions to web pages</li> <li>• Upload, test and deploy web pages containing JavaScript</li> </ul>

<b>Current Degree/Certificate Outcome</b>
<ul style="list-style-type: none"> <li>• Basic electrical theory</li> <li>• Basic electronics</li> <li>• Basic mechanical systems</li> </ul>

- Basic aerodynamic principles

**Does Revision involve changing Degree/Certificate Outcomes?**

No       Yes

If Yes, list proposed outcomes:

<b>Proposed Degree/Certificate Outcome</b>
<ul style="list-style-type: none"> <li>• Qualify for employment in the renewable energy field as technicians</li> <li>• Service and repair renewable energy systems, assist engineers with the design of renewable systems by applying knowledge of electrical, electronics, mechanical, control systems and hydraulics/pneumatics concepts.</li> <li>• Communicate effectively both at the individual level and within team settings.</li> <li>• Understand the impact of renewable energy within the context of sustainability and apply sustainability concepts to their practice</li> <li>• Apply ethical and professional practice within the field of renewable energy</li> <li>• Achieve success in continuing their education towards completion of a four-year degree in engineering technology or engineering, should that be their goal.</li> </ul>

**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**

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

**Current**

<b>Course Number</b>	<b>Course Title</b>	<b>Credit</b>
CAS 133	Basic Computer Skills/Microsoft Office	4

**Proposed**

<b>Course Number</b>	<b>Course Title</b>	<b>Credit</b>
CAS 170	Beginning Excel: WIN	3

**Total Number of Credits in Degree/Certificate:**

Current Credits: 101

Proposed Credits: 100

**Contact Information:**

Submitted by: Mary Kramer  
Contact e-mail: mkramer@cgcc.cc.or.us

**Next Steps:**

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





- Basic mechanical systems
- Basic aerodynamic principles

**Does Revision involve changing Degree/Certificate Outcomes?**

No       Yes

If Yes, list proposed outcomes:

<b>Proposed Degree/Certificate Outcome</b>
<ul style="list-style-type: none"> <li>• Qualify for employment in the renewable energy field as entry level operators</li> <li>• Assist technicians with repair/servicing/manufacturing of renewable systems by applying basic knowledge of electrical, electronics, mechanical, and hydraulics/pneumatics concepts</li> <li>• Communicate effectively both at the individual level and within team settings.</li> <li>• Understand the impact of renewable energy within the context of sustainability and apply sustainability concepts to their practice</li> <li>• Apply ethical and professional practice within the field of renewable energy</li> <li>• Achieve success in continuing their education towards completion of two-year AAS degree, should that be their goal.</li> </ul>

**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**

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

**Current**

<b>Course Number</b>	<b>Course Title</b>	<b>Credit</b>
CAS 133	Basic Computer Skills/Microsoft Office	4

**Proposed**

<b>Course Number</b>	<b>Course Title</b>	<b>Credit</b>
CAS 170	Beginning Excel: WIN	3

**Total Number of Credits in Degree/Certificate:**

Current Credits: 52  
Proposed Credits: 51

**Contact Information:**

Submitted by: Mary Kramer  
Contact e-mail: mkramer@cgcc.cc.or.us

**Next Steps:**

1. a. Save completed Associate of Applied Science/Certificate Revision Request Form and Submit as an email attachment to [curriculum@pcc.edu](mailto: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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## Template for Related Instruction in Certificates

<b>45 to 89 credits</b>		<b>Renewable Energy Technology</b>			Related instruction Hours in:			
Enter course information in light yellow areas (totals will be automatically calculated)								
Subject Code	Course Number	Course Title	Credits	Hours	Computation	Communication	Human Relation	Total RI
<i>Example: BKT</i>	101	<i>Basket Weaving Basics</i>	3	90	6	12	8	26
EET	111	Electrical Circuit Analysis I	5	150				No RI
RET	120	Basic Hydraulics	5	150				No RI
RET	101	Intro to Wind Turbine Operations	1	30				No RI
MTH	111C	College Algebra for Math, Science, Eng.	5	150	150			150
EET	112	Electrical Circuit Analysis II	5	150				
RET	121	Mechanical Power I*	5	150				No RI
CAS	170	Beginning Excel: WIN	3	90				No RI
WR	121	English Composition	4	120		120		120
								No RI
EET	113	Electrical Circuit Analysis III	5	150				No RI
RET	122	Mechanical Power II*	5	150				No RI
RET	141	Electric Motor Controls	3	90				No RI
EET	188	Industrial Safety	1	30				No RI
		Social Science/Gen Ed Elective	4	120			60	60
								No RI
<b>Totals</b>			<b>51</b>	<b>1530</b>	<b>150</b>	<b>120</b>	<b>60</b>	<b>330</b>
<b>Minimum for 1 yr certificate:</b>					<b>48</b>	<b>48</b>	<b>48</b>	<b>240</b>
<b>Remaining to meet Min. Requirement:</b>					<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

**PORTLAND COMMUNITY COLLEGE**

**Associate of Applied Science/Certificate  
Revision Request Form**

**Current Degree/Certificate Title:** Associate of Applied Science in Building Inspection Technology

**Proposed Degree/Certificate Title:**

**Reason for Revision:**

Add prerequisite, add courses to INSP/ARCH electives list and a course name change

1)Old Prerequisites: RD 115, WR 115 and Math 20

New Prerequisites: INSP 100, WR 115 and Math 20

2) Add INSP 217 and INSP 218 to the INSP/ARCH Electives list

3) Title Change INSP 154. Was: Introduction to Residential Inspection. Is: Residential Inspection Basics

**Request Implementation Term:** Winter 2010

**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
RD 115	College Reading	4
WR 115	Introduction to Expository Writing	4
MTH 20	Basic Math	4

**Does Revision involve changing Degree/Certificate Prerequisites?**

No  Yes

If Yes, please list proposed prerequisites:

**Proposed**

Course Number	Course Title	Credit
INSP 100	Introduction to Building Inspection Technology	1
WR 115	Introduction to Expository Writing	4
MTH 20	Basic Math	4

**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**

<b>Current Degree/Certificate Outcome</b>
<ul style="list-style-type: none"> <li>• Develop JavaScript extensions to web pages</li> <li>• Upload, test and deploy web pages containing JavaScript</li> </ul>

<b>Current Degree/Certificate Outcome</b>
<ul style="list-style-type: none"> <li>• Complete a successful internship with a local inspections jurisdiction.</li> <li>• Complete with a passing grade the appropriate national and/or state licensing exam(s).</li> <li>• Understand professional and ethical responsibilities.</li> <li>• Function and communicate effectively one-on-one and within team of group settings.</li> <li>• Use appropriate techniques, skills and tools as needed in a work environment.</li> <li>• Interpret and apply architectural and engineering drawings in performance of building inspections.</li> <li>• Apply knowledge of construction and structures in the performance of building inspections.</li> <li>• Obtain employment in the Building Inspections field.</li> <li>• Complete successfully, education and practices to maintain inspection licenses. <ul style="list-style-type: none"> <li>• Participate in life-long learning.</li> </ul> </li> </ul>

**Does Revision involve changing Degree/Certificate Outcomes?**

No       Yes

If Yes, list proposed outcomes:

<b>Proposed Degree/Certificate Outcome</b>
•

**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>).

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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**

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

**Current**

<b>Course Number</b>	<b>Course Title</b>	<b>Credit</b>
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	see attached	
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**Proposed**

Course Number	Course Title	Credit
	see attached	

**Total Number of Credits in Degree/Certificate:**

Current Credits: 95

Proposed Credits: 95

**Contact Information:**

Submitted by: Debra Anderson

Contact e-mail: [debra.anderson4@pcc.edu](mailto:debra.anderson4@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](mailto:curriculum@pcc.edu).  
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<b>INSP/ARCH Electives – choose a total of 10 credits</b>		
<b>INSP 154</b>	<b>Intro to Residential Inspection</b>	<b>1</b>
INSP 260	Oregon Inspections Certificate	2
INSP 101	Architectural Graphics 1	2
INSP 102	Architectural Graphics 2	2
ARCH 113	Working Drawings 3	2
ARCH 224	Active & Passive Bldg Systems	4

<b>INSP/ARCH Electives – choose a total of 10 credits</b>		
<b>INSP 154</b>	<b>Residential Inspection Basics (New Title)</b>	<b>1</b>
INSP 260	Oregon Inspections Certificate	2
INSP 101	Architectural Graphics 1	2
INSP 102	Architectural Graphics 2	2
ARCH 113	Working Drawings 3	2
ARCH 224	Active & Passive Bldg Systems	4
<b>INSP 217</b>	<b>Fire Alarm Plan Review Basics (add)</b>	<b>2</b>
<b>INSP 218</b>	<b>Fire Sprinkler Plan Review Basics (add)</b>	<b>2</b>

**PORTLAND COMMUNITY COLLEGE**

**Associate of Applied Science/Certificate  
Revision Request Form**

**Current Degree/Certificate Title:** Residential Structural and Mechanical Inspection and Plans Examination Certificate

**Proposed Degree/Certificate Title:**

**Reason for Revision:**

Add prerequisites:

1) Old Prerequisites: RD 115, WR 115 and Math 20  
New Prerequisites: INSP 100, WR 115 and Math 20

2) Title Change INSP 154. Was: Introduction to Residential Inspection. Is: Residential Inspection Basics

**Request Implementation Term:** Winter 2010

**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
RD 115	College Reading	4
WR 115	Introduction to Expository Writing	4
MTH 20	Basic Math	4

**Does Revision involve changing Degree/Certificate Prerequisites?**

No  Yes

If Yes, please list proposed prerequisites:

**Proposed**

Course Number	Course Title	Credit
INSP 100	Introduction to Building Inspection Technology	1
WR 115	Introduction to Expository Writing	4
MTH 20	Basic Math	4

**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
<ul style="list-style-type: none"> <li>• Develop JavaScript extensions to web pages</li> <li>• Upload, test and deploy web pages containing JavaScript</li> </ul>

Current Degree/Certificate Outcome
<ul style="list-style-type: none"> <li>• Outcomes are being re-evaluated</li> </ul>

**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>).

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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	

**Proposed**

Course Number	Course Title	Credit
	See Attached	

**Total Number of Credits in Degree/Certificate:**

Current Credits: 43

Proposed Credits: 43

**Contact Information:**

Submitted by: Debra Anderson  
Contact e-mail: Debra.Anderson4@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](mailto:curriculum@pcc.edu).  
b. If needed, attach Related Instruction Form (<http://www.pcc.edu/resources/academic/eac/degree/forms.html>) to the same email.
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Residential Structural and Mechanical Inspection and Plans Examination certificate current				Residential Structural and Mechanical Inspection and Plans Examination certificate proposed			
First Term				First Term			
INSP 151	International Residential Code-Structural		4	INSP 151	International Residential Code-Structural		4
INSP 154	Intro to Residential Inspection (OLD)		1	INSP 154	Residential Inspection Basics (New Title)		1
ARCH 121	Structural Systems I		2	ARCH 121	Structural Systems I		2
ARCH 161	Blueprint Reading I		2	ARCH 161	Blueprint Reading I		2
CAS 216	Beginning WORD		3	CAS 216	Beginning WORD		3
			12				12
Second Term				Second Term			
INSP 152	International Residential Code-Mechanical		2	INSP 152	International Residential Code-Mechanical		2
ARCH 122	Structural Systems II		4	ARCH 122	Structural Systems II		4
CG 209	Job Finding Skills		1	CG 209	Job Finding Skills		1
INSP 280B	CE: Field Experience		4	INSP 280B	CE: Field Experience		4
Electives			3	Electives			3
			14				14
Third Term				Third Term			
INSP 202	Plans Exam-Residential		4	INSP 202	Plans Exam-Residential		4
INSP 280B	CE: Field Experience		6	INSP 280B	CE: Field Experience		6
ARCH 123	Structural Systems III		4	ARCH 123	Structural Systems III		4
Electives			3	Electives			3
			17				17
		<b>Total</b>	<b>43</b>			<b>Total</b>	<b>43</b>

**PORTLAND COMMUNITY COLLEGE**

**Associate of Applied Science/Certificate  
Revision Request Form**

**Current Degree/Certificate Title:** Commercial Structural and Mechanical Inspection Certificate

**Proposed Degree/Certificate Title:**

**Reason for Revision:**

Add prerequisites:

- 1) Old Prerequisites: RD 115, WR 115 and Math 20  
New Prerequisites: INSP 100, WR 115 and Math 20

**Request Implementation Term:** Winter 2010

**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
RD 115	College Reading	4
WR 115	Introduction to Expository Writing	4
MTH 20	Basic Math	4

**Does Revision involve changing Degree/Certificate Prerequisites?**

No  Yes

If Yes, please list proposed prerequisites:

**Proposed**

Course Number	Course Title	Credit
INSP 100	Introduction to Building Inspection Technology	1
WR 115	Introduction to Expository Writing	4
MTH 20	Basic Math	4

**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

<b>Current Degree/Certificate Outcome</b>
• Outcomes are being re-evaluated

**Does Revision involve changing Degree/Certificate Outcomes?**

No       Yes

If Yes, list proposed outcomes:

<b>Proposed Degree/Certificate Outcome</b>
•

**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	

**Proposed**

Course Number	Course Title	Credit
	See attached	

**Total Number of Credits in Degree/Certificate:**

Current Credits: 44

Proposed Credits: 44

**Contact Information:**

Submitted by: Debra Anderson  
Contact e-mail: Debra.Anderson4@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](mailto:curriculum@pcc.edu).  
b. If needed, attach Related Instruction Form (<http://www.pcc.edu/resources/academic/eac/degree/forms.html>) to the same email.
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<b>Commercial Structural and Mechanical Inspection Certificate 2009-2010</b>			
<b>First Term</b>			
INSP 251	International Building Code I		4
INSP 257	International Fuel and Gas Code		3
ARCH 121	Structural Systems I		2
CAS 216	Beginning WORD		3
MSD 151	Dealing with Difficult People		1
CG 209	Job Finding Skills		1
			<b>14</b>
<b>Second Term</b>			
INSP 252	International Building Code II		3
INSP 255	International Mechanical Code I		2
ARCH 122	Structural Systems II		4
ARCH 162	Printreading II		2
MSD 130	Creative Problem Solving		3
			<b>14</b>
<b>Third Term</b>			
INSP 253	International Building Code III		3
INSP 256	International Mechanical Code II		3
ARCH 123	Structural Systems III		4
INSP 280B	CE: Field Experience		6
			<b>16</b>
		<b>Total</b>	<b>72</b>

**PORTLAND COMMUNITY COLLEGE**

**Associate of Applied Science/Certificate  
Revision Request Form**

**Current Degree/Certificate Title:** Web Site Development and Design AAS

**Proposed Degree/Certificate Title:**

**Reason for Revision:**

To add CAS 225 Introduction to PHP as an "or" to the coursework for the Developmental Emphasis.

**Request Implementation Term:** Winter 2010

**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
<ul style="list-style-type: none"> <li>• Develop JavaScript extensions to web pages</li> <li>• Upload, test and deploy web pages containing JavaScript</li> </ul>

Current Degree/Certificate Outcome
<ul style="list-style-type: none"> <li>• Communicate effectively about web-related topics</li> <li>• Develop web pages and web sites that meet industry standards</li> <li>• Demonstrate basic competency in web design</li> <li>• Demonstrate advanced expertise in either web programming or web design and complete a web-related project</li> </ul>

**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
CAS 214	Beginning ColdFusion or	4
CIS 234S	Web Application Development Using .Net or	4
CIS 195P	PHP Web Development I	4

**Proposed**

Course Number	Course Title	Credit
CAS 214	Beginning ColdFusion or	4
CIS 234S	Web Application Development using .Net or	4
CIS 195P	PHP Web Development I or	4
CAS 225	Introduction to PHP	4

**Total Number of Credits in Degree/Certificate:**

Current Credits: 94

Proposed Credits: 94

**Contact Information:**

Submitted by: Ron Bekey

Contact e-mail: rbekey@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](mailto: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.

**Website Development and Design AAS**

<b>First Term</b>		<b>Development Emphasis Electives</b>			
CAS 111D	Beginning Web Site Creation: Dreamweaver	3	CAS 213	Enhancing Web Pages with JavaScript	4
CAS 206	Principles of XHTML	4		Or	
CIS 120	Computer Concepts I*	4	CIS 233S	Internet Web Page Scripting	4
WR 121	English Composition	4	<b>CAS 214</b>	<b>Beginning ColdFusion</b>	<b>4</b>
	Development Elective	4		Or	
	Or		<b>CIS 234S</b>	<b>Web Application Development Using .NET</b>	<b>4</b>
	Design Elective	3		Or	
			<b>CIS 195P</b>	<b>PHP Web Development I</b>	<b>4</b>
<b>Second Term</b>				Or	
CAS 211D	Intermediate Dreamweaver	3	<b>CAS 225</b>	<b>Introduction to PHP (ADD)</b>	
CAS 208	Beginning PhotoShop for the Web	3	CIS 122	Software Design	4
CIS 121	Computer Concepts II*	4	CIS 133B	Introduction to Visual Basic .NET Programming	4
BA 101	Introduction to Business	4		Or	
	Development Elective	4	CIS 133J	Java Programming I	4
	Or		CIS 125D	Database Application Development I	4
	Design Elective	6	CIS 287I	Web Server Administration	4
			CIS 179	Data Communication Concepts I	4
<b>Third Term</b>					
MM 120	Multimedia Design	2	<b>Design Emphasis Electives</b>		
CIS 178	Applied Internet Concepts	4	CAS 175	Introduction to Flash	3
CIS 179	Data Communication Concepts I	4	ART 115	Basic Design	3
BA 205	Solving Communication Problems with Technology	4	ART 116	Basic Design	3
	Or		MM 130	Multimedia Graphic Video and Audio Production	3
MM 270	Writing for Multimedia	3	MM 140	Multimedia Authoring I	3
	Or		MM 160	Marketing Yourself as a Multimedia Professional	2
WR 227	Technical and Professional Writing I	4	MM 220	Multimedia Design II	3
	Development Elective	4	MM 230	Graphics for Multimedia	4
	Or		MM 231	Vector Graphics & Animation	3
	Design Elective	3			
<b>Fourth Term</b>					
BA 207	Introduction to E-Commerce	4			
	Or				

CIS 243	E-ssentials of E-Commerce Information Systems	4
	Development Elective	4
	Or	
	Design Elective	3
<b>Fifth Term</b>		
BA 223	Principles of Marketing	3
	Or	
BA 239	Advertising	3
MSD 279	Project Management	4
	General Education	4
	Development Elective	4
	Or	
	Design Elective	3
	Development Elective	4
	Or	
	Design Elective	3
<b>Sixth Term</b>		
CAS 215	CSS and Dynamic HTML	4
CAS 280W	CE: Web Site Development	4
	General Education	4
MM 110	Intro to Multimedia	1
	Development Elective	4
	Or	
	Design Elective	6

**PORTLAND COMMUNITY COLLEGE**

**Associate of Applied Science/Certificate  
Revision Request Form**

**Current Degree/Certificate Title:** Aviation Science - Airplane AAS

**Proposed Degree/Certificate Title:**

**Reason for Revision:**

The VA has begun requiring that students pay their flight training fees directly to PCC rather than our flight training provider, Hillsboro Aviation. PCC's business office has begun setting up a process to facilitate this, but it means that all of the flight training fees will be due during the term in which the student registers. Previously the students had a "Pay as you go" option. In order to make budgeting for the flight training more flexible, we have added an equivalent alternative for each PCC flight course where the course is broken down into one credit courses. This is similar to how the Math department has an alternative to Math 65: Math 61, 62, 63, that allows the student to cover the material more slowly. We have done this for most of our flight courses, but are leaving the original flight courses as an option for students who are fully funded to proceed at full speed. The cost is the same either way (One 3 credit course will cost the same as the equivalent three 1 credit courses). We have taken care to keep the number of total credits exactly the same. As part of the process of making this change, it was decided to change the prerequisites for the program to better prepare the students for success and close enrollment for the flight courses in order to make sure the students have been adequately advised before signing up.

**Request Implementation Term:** Fall 2009

**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
MTH 20	Basic Math	4
Placement		3
WR 80	Writing 80	3
RD 90	Reading 90	

**Does Revision involve changing Degree/Certificate Prerequisites?**

No       Yes

If Yes, please list proposed prerequisites:

**Proposed**

Course Number	Course Title	Credit
WR 115	Introduction to Expository Writing	4
MTH 60	Introductory Algebra	4

AVS127	Introduction to Aviation	4
--------	--------------------------	---

**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
<ul style="list-style-type: none"> <li>• Develop JavaScript extensions to web pages</li> <li>• Upload, test and deploy web pages containing JavaScript</li> </ul>

Current Degree/Certificate Outcome
<ul style="list-style-type: none"> <li>• Earn FAA certificates and ratings appropriate to the pilot career they seek.</li> <li>• For Airplane:</li> <li>• Commercial Pilot certificate with airplane single- and multi-engine and instrument airplane ratings.</li> <li>• Flight Instructor certificate with airplane single- and multi-engine and instrument airplane ratings (If Flight Instructor specialization is chosen).</li> <li>• For Helicopter:</li> <li>• Commercial Pilot Certificate with Rotorcraft Helicopter and optional Instrument Helicopter rating</li> <li>• Flight Instructor Rating with Rotorcraft Helicopter rating.</li> <li>• 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.</li> <li>• 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.</li> </ul>

**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
	See Attached	

**Proposed**

Course Number	Course Title	Credit
	See Attached	

**Total Number of Credits in Degree/Certificate:**

Current Credits: 90

Proposed Credits: 90

**Contact Information:**

Submitted by: Larry Altree

Contact e-mail: laltree@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](mailto: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.

Aviation Science-Airplane AAS Current				Aviation Science-Airplane AAS Proposed			
Flight Instructor Option				Flight Instructor Option			
First Term				First Term			
AVS 120	Airplane: Private Pilot Ground		4	AVS 120	Airplane: Private Pilot Ground		4
AVS 125	Airplane: Private Pilot Flight		3	AVS 125	Airplane: Private Pilot Flight		3
AVS 127	Introduction to Aviation		4	<b>OR</b>			
AVS 107	Flight Prep Level I		1	<b>AVS 121</b>	<b>Airplane Pre-Solo Flight</b>		<b>1</b>
WR 121	English Composition		4	<b>AVS 122</b>	<b>Airplane Pre-Cross Country Flight</b>		<b>1</b>
		<b>Total</b>	<b>16</b>	<b>AVS 123</b>	<b>Airplane Cross Country/Test Prep</b>		<b>1</b>
<b>Second Term</b>				AVS 127	Introduction to Aviation		4
AVS 130	Instrument Ground School		4	AVS 107	Flight Prep Level I		1
AVS 135	Airplane: Instrument Flight		3	WR 121	English Composition		4
AVS 137	Applied Aerodynamics		4			<b>Total</b>	<b>16</b>
AVS 107	Flight Prep Level I		1	<b>Second Term</b>			
		<b>Total</b>	<b>12</b>	AVS 130	Instrument Ground School		4
<b>Third Term</b>				AVS 135	Airplane: Instrument Flight		3
AVS 140	Airplane: Commercial Pilot Ground		4	<b>OR</b>			
AVS 145	Introduction to Commercial Airplane		3	<b>AVS 131</b>	<b>Airplane Instrument Attitude/Nav</b>		<b>1</b>
AVS 157	Aircraft Systems & Structures I: Airframe		3	<b>AVS 132</b>	<b>Airplane Instrument Approaches</b>		<b>1</b>
AVS 107	Flight Prep Level I		1	<b>AVS 133</b>	<b>Airplane Instrument Cross-Country</b>		<b>1</b>
		<b>Total</b>	<b>11</b>	AVS 137	Applied Aerodynamics		4
<b>Fourth Term</b>				AVS 107	Flight Prep Level I		1
AVS 225	Airplane: Commercial Flight		4			<b>Total</b>	<b>12</b>
AVS 207	Flight Prep Level II		1	<b>Third Term</b>			
GS 109	Meteorology*		4	AVS 140	Airplane: Commercial Pilot Ground		4
General Education			4	AVS 145	Introduction to Commercial Airplane		3
		<b>Total</b>	<b>13</b>	<b>OR</b>			
<b>Fifth Term</b>				<b>AVS 141</b>	<b>Airplane Commercial XC/Night</b>		<b>1</b>
AVS 167	Aircraft Systems & Structures II: Powerplant		3	<b>AVS 142</b>	<b>Airplane XC Exploration</b>		<b>1</b>
AVS 227	Aviation Careers		4	<b>AVS 143</b>	<b>Airplane Commercial Precision XC</b>		<b>1</b>
AVS 230	Airplane: Certified Flight Instructor Ground		4	AVS 157	Aircraft Systems & Structures I: Airframe		3
AVS 235	Airplane: Certified Flight Instructor Flight		2	AVS 107	Flight Prep Level I		1
AVS 207	Flight Prep Level II		1			<b>Total</b>	<b>11</b>
		<b>Total</b>	<b>14</b>	<b>Fourth Term</b>			
<b>Sixth Term</b>				AVS 225	Airplane: Commercial Flight		4

AVS 267	Economics of Flight Operations	4	<b>OR</b>		
AVS 241	Airplane: CFII Ground/Flight	3	<b>AVS 221</b>	<b>Airplane Complex Airplanes</b>	<b>1</b>
AVS 242	Airplane: MEI Ground /Flight	2	<b>AVS 222</b>	<b>Airplane Commercial Maneuvers</b>	<b>1</b>
AVS 207	Flight Prep Level II	1	<b>AVS 223</b>	<b>Airplane Commercial Proficiency</b>	<b>1</b>
General Education		4	<b>AVS 224</b>	<b>Airplane Multi-Engine</b>	<b>1</b>
<b>Total</b>		<b>14</b>	AVS 207	Flight Prep Level II	1
<b>Seventh Term</b>			GS 109	Meteorology*	4
AVS 255	Airplane: Pilot Performance	1	General Education		4
AVS 207	Flight Prep Level II	1	<b>Total</b>		<b>13</b>
AVS 237	Aviation Law and Regulations	4	<b>Fifth Term</b>		
General Education		4	AVS 167	Aircraft Systems & Structures II: Powerplant	3
<b>Total</b>		<b>10</b>	AVS 227	Aviation Careers	4
<b>Total</b>		<b>90</b>	AVS 230	Airplane: Certified Flight Instructor Ground	4
			AVS 235	Airplane: Certified Flight Instructor Flight	2
			<b>OR</b>		
			<b>AVS 231</b>	<b>Airplane CFI Intro</b>	<b>1</b>
			<b>AVS 232</b>	<b>Airplane CFI Test Prep</b>	<b>1</b>
			AVS 207	Flight Prep Level II	1
			<b>Total</b>		<b>14</b>
<b>Sixth Term</b>			AVS 267	Economics of Flight Operations	4
			AVS 241	Airplane: CFII Ground/Flight	3
			AVS 242	Airplane: MEI Ground /Flight	2
			AVS 207	Flight Prep Level II	1
			General Education		4
			<b>Total</b>		<b>14</b>
<b>Seventh Term</b>			AVS 255	Airplane: Pilot Performance	1
			AVS 207	Flight Prep Level II	1
			AVS 237	Aviation Law and Regulations	4
			General Education		4
			<b>Total</b>		<b>10</b>
			<b>Total</b>		<b>90</b>

Aviation Science-Airplane AAS Current				Aviation Science-Airplane AAS Proposed			
Without Flight Instructor Option				Without Flight Instructor Option			
First Term				First Term			
AVS 120	Airplane: Private Pilot Ground		4	AVS 120	Airplane: Private Pilot Ground		4
AVS 125	Airplane: Private Pilot Flight		3	AVS 125	Airplane: Private Pilot Flight		3
AVS 127	Introduction to Aviation		4	<b>OR</b>			
AVS 107	Flight Prep Level I		1	<b>AVS 121</b>	<b>Airplane Pre-Solo Flight</b>		<b>1</b>
WR 121	English Composition		4	<b>AVS 122</b>	<b>Airplane Pre-Cross Country Flight</b>		<b>1</b>
	Total		16	<b>AVS 123</b>	<b>Airplane Cross Country/Test Prep</b>		<b>1</b>
<b>Second Term</b>				AVS 127	Introduction to Aviation		4
AVS 130	Instrument Ground School		4	AVS 107	Flight Prep Level I		1
AVS 135	Airplane: Instrument Flight		3	WR 121	English Composition		4
AVS 137	Applied Aerodynamics		4		Total		16
AVS 107	Flight Prep Level I		1	<b>Second Term</b>			
	Total		12	AVS 130	Instrument Ground School		4
<b>Third Term</b>				AVS 135	Airplane: Instrument Flight		3
AVS 140	Airplane: Commercial Pilot Ground		4	<b>OR</b>			
AVS 145	Introduction to Commercial Airplane		3	<b>AVS 131</b>	<b>Airplane Instrument Attitude/Nav</b>		<b>1</b>
AVS 157	Aircraft Systems & Structures I: Airframe		3	<b>AVS 132</b>	<b>Airplane Instrument Approaches</b>		<b>1</b>
AVS 107	Flight Prep Level I		1	<b>AVS 133</b>	<b>Airplane Instrument Cross-Country</b>		<b>1</b>
	Total		11	AVS 137	Applied Aerodynamics		4
<b>Fourth Term</b>				AVS 107	Flight Prep Level I		1
AVS 225	Airplane: Commercial Flight		4		Total		12
AVS 207	Flight Prep Level II		1	<b>Third Term</b>			
GS 109	Meteorology*		4	AVS 140	Airplane: Commercial Pilot Ground		4
General Education			4	AVS 145	Introduction to Commercial Airplane		3
	Total		13	<b>OR</b>			
<b>Fifth Term</b>				<b>AVS 141</b>	<b>Airplane Commercial XC/Night</b>		<b>1</b>
AVS 167	Aircraft Systems & Structures II: Powerplant		3	<b>AVS 142</b>	<b>Airplane XC Exploration</b>		<b>1</b>
AVS 227	Aviation Careers		4	<b>AVS 143</b>	<b>Airplane Commercial Precision XC</b>		<b>1</b>
AVS 275	Airplane/Professional Pilot		3	AVS 157	Aircraft Systems & Structures I: Airframe		3
AVS 207	Flight Prep Level II		1	AVS 107	Flight Prep Level I		1
Approved Electives			1		Total		11
	Total		12	<b>Fourth Term</b>			
<b>Sixth Term</b>				AVS 225	Airplane: Commercial Flight		4

AVS 267	Economics of Flight Operations	4	<b>OR</b>		
General Education		4	<b>AVS 221</b>	<b>Airplane Complex Airplanes</b>	<b>1</b>
Approved Electives		8	<b>AVS 222</b>	<b>Airplane Commercial Maneuvers</b>	<b>1</b>
Total		16	<b>AVS 223</b>	<b>Airplane Commercial Proficiency</b>	<b>1</b>
<b>Seventh Term</b>			<b>AVS 224</b>	<b>Airplane Multi-Engine</b>	<b>1</b>
AVS 255	Airplane: Pilot Performance	1	AVS 207	Flight Prep Level II	1
AVS 207	Flight Prep Level II	1	GS 109	Meteorology*	4
AVS 237	Aviation Law and Regulations	4	General Education		4
General Education		4	<b>Total</b>		<b>13</b>
			<b>Total</b>		
		10	<b>Fifth Term</b>		
		90	AVS 167	Aircraft Systems & Structures II: Powerplant	3
			AVS 227	Aviation Careers	4
			AVS 275	Airplane/Professional Pilot	3
			AVS 207	Flight Prep Level II	1
			Approved Electives		1
			<b>Total</b>		<b>12</b>
			<b>Sixth Term</b>		
			AVS 267	Economics of Flight Operations	4
			Approved Electives		8
			General Education		4
			<b>Total</b>		<b>16</b>
			<b>Seventh Term</b>		
			AVS 255	Airplane: Pilot Performance	1
			AVS 207	Flight Prep Level II	1
			AVS 237	Aviation Law and Regulations	4
			General Education		4
				<b>Total</b>	<b>10</b>
				<b>Total</b>	<b>90</b>

**PORTLAND COMMUNITY COLLEGE**

**Associate of Applied Science/Certificate  
Revision Request Form**

**Current Degree/Certificate Title:** Aviation Science - Helicopter AAS

**Proposed Degree/Certificate Title:**

**Reason for Revision:**

The VA has begun requiring that students pay their flight training fees directly to PCC rather than our flight training provider, Hillsboro Aviation. PCC's business office has begun setting up a process to facilitate this, but it means that all of the flight training fees will be due during the term in which the student registers. Previously the students had a "Pay as you go" option. In order to make budgeting for the flight training more flexible, we have added an equivalent alternative for each PCC flight course where the course is broken down into one credit courses. This is similar to how the Math department has an alternative to Math 65: Math 61, 62, 63, that allows the student to cover the material more slowly. We have done this for most of our flight courses, but are leaving the original flight courses as an option for students who are fully funded to proceed at full speed. The cost is the same either way (One 3 credit course will cost the same as the equivalent three 1 credit courses). We have taken care to keep the number of total credits exactly the same. As part of the process of making this change, it was decided to change the prerequisites for the program to better prepare the students for success and close enrollment for the flight courses in order to make sure the students have been adequately advised before signing up.

**Request Implementation Term:** Fall 2009

**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
MTH 20	Basic Math	4
Placement:		
WR 80	Writing 80	3
RD 90	Reading 90	3

**Does Revision involve changing Degree/Certificate Prerequisites?**

No       Yes

If Yes, please list proposed prerequisites:

**Proposed**

Course Number	Course Title	Credit
WR 115	Introduction to Expository Writing	4
MTH 60	Introductory Algebra	4

AVS127	Introduction to Aviation	4
--------	--------------------------	---

**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
<ul style="list-style-type: none"> <li>• Develop JavaScript extensions to web pages</li> <li>• Upload, test and deploy web pages containing JavaScript</li> </ul>

Current Degree/Certificate Outcome
<ul style="list-style-type: none"> <li>• Earn FAA certificates and ratings appropriate to the pilot career they seek.</li> <li>• For Airplane:</li> <li>• Commercial Pilot certificate with airplane single- and multi-engine and instrument airplane ratings.</li> <li>• Flight Instructor certificate with airplane single- and multi-engine and instrument airplane ratings (If Flight Instructor specialization is chosen).</li> <li>• For Helicopter:</li> <li>• Commercial Pilot Certificate with Rotorcraft Helicopter and optional Instrument Helicopter rating</li> <li>• Flight Instructor Rating with Rotorcraft Helicopter rating.</li> <li>• 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.</li> <li>• 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.</li> </ul>

**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
	See Attached	

**Proposed**

Course Number	Course Title	Credit
	See Attached	

**Total Number of Credits in Degree/Certificate:**

Current Credits: 90

Proposed Credits: 90

**Contact Information:**

Submitted by: Larry Altree

Contact e-mail: laltree@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](mailto: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.

Aviation Science-Helicopter AAS Current				Aviation Science-Helicopter AAS Proposed			
With Instrument Rating				With Instrument Rating			
First Term				First Term			
AVS 110	Helicopter: Private Pilot Ground		4	AVS 110	Helicopter: Private Pilot Ground		4
AVS 115	Helicopter: Private Pilot Flight		3	AVS 115	Helicopter: Private Pilot Flight		3
AVS 107	Flight Prep Level I		1		<b>OR</b>		
AVS 127	Introduction to Aviation		4	<b>AVS 111</b>	<b>Helicopter Pre-Solo</b>		<b>1</b>
General Education			4	<b>AVS 112</b>	<b>Helicopter Private Cross Country</b>		<b>1</b>
			<b>Total</b>	<b>16</b>	<b>AVS 113</b>	<b>Helicopter Private Proficiency</b>	<b>1</b>
<b>Second Term</b>				AVS 107	Flight Prep Level I		1
AVS 137	Applied Aerodynamics		4	AVS 127	Introduction to Aviation		4
AVS 150	Helicopter: Commercial Ground		3	General Education			4
AVS 155	Helicopter: Introduction to Commercial Flight		3				<b>Total</b>
AVS 107	Flight Prep Level I		1	<b>Second Term</b>			
GS 109	Meteorology*		4	AVS 137	Applied Aerodynamics		4
			<b>Total</b>	<b>15</b>	AVS 150	Helicopter: Commercial Ground	3
<b>Third Term</b>				AVS 155	Helicopter: Introduction to Commercial Flight		3
AVS 157	Aircraft Systems & Structures I: Airframe		3	<b>OR</b>			
PHY 101	Fundamentals of Physics I*		4	<b>AVS 151</b>	<b>Helicopter Commercial XC</b>		<b>1</b>
Or				<b>AVS 152</b>	<b>Helicopter Intro to Commercial Basics</b>		<b>1</b>
PHY 201	General Physics*		4	<b>AVS 153</b>	<b>Helicopter Commercial Basic Practice</b>		<b>1</b>
AVS 215	Helicopter: Commercial Flight-B		4	AVS 107	Flight Prep Level I		1
AVS 207	Flight Prep Level II		1	GS 109	Meteorology*		4
AVS 130	Instrumental Ground School		4				<b>Total</b>
			<b>Total</b>	<b>16</b>	<b>Third Term</b>		
<b>Fourth Term</b>				AVS 157	Aircraft Systems & Structures I: Airframe		3
AVS 227	Aviation Careers		4	PHY 101	Fundamentals of Physics I*		4
AVS 260	Helicopter: CFI Ground		4	Or			
AVS 265	Helicopter: CFI Flight		3	PHY 201	General Physics*		4
AVS 207	Flight Prep Level II		1	AVS 215	Helicopter: Commercial Flight-B		4
AVS 167	Aircraft Systems & Structures II: Powerplant		3	<b>OR</b>			
			<b>Total</b>	<b>15</b>	<b>AVS 211</b>	<b>Helicopter Instrument Intro</b>	<b>1</b>
<b>Fifth Term</b>				<b>AVS 212</b>	<b>Helicopter Instrument Procedures</b>		<b>1</b>
AVS 237	Aviation Law and Regulations		4	<b>AVS 213</b>	<b>Helicopter Avanced Commercial</b>		<b>1</b>
Approved Electives			8	<b>AVS 214</b>	<b>Helicopter Commercial Test Prep</b>		<b>1</b>

	<b>Total</b>	<b>12</b>	AVS 207	Flight Prep Level II	1
<b>Sixth Term</b>			AVS 130	Instrumental Ground School	4
AVS 267	Economics of Flight Operations	4		<b>Total</b>	<b>16</b>
Approved Electives		<b>8</b>	<b>Fourth Term</b>		
General Education		4	AVS 227	Aviation Careers	4
	<b>Total</b>	<b>16</b>	AVS 260	Helicopter: CFI Ground	4
	<b>Total</b>	<b>90</b>	AVS 265	Helicopter: CFI Flight	3
				<b>OR</b>	
			<b>AVS 261</b>	<b>Helicopter Intro to CFI</b>	<b>1</b>
			<b>AVS 262</b>	<b>Helicopter CFI Development</b>	<b>1</b>
			<b>AVS 263</b>	<b>Helicopter CFI Test Prep</b>	<b>1</b>
			AVS 207	Flight Prep Level II	1
			AVS 167	Aircraft Systems & Structures II: Powerplant	3
				<b>Total</b>	<b>15</b>
			<b>Fifth Term</b>		
			AVS 237	Aviation Law and Regulations	4
			Approved Electives		8
				<b>Total</b>	<b>12</b>
			<b>Sixth Term</b>		
			AVS 267	Economics of Flight Operations	4
			Approved Electives		8
			General Education		4
				<b>Total</b>	<b>16</b>
				<b>Total</b>	<b>90</b>

Aviation Science Helicopter AAS Current				Aviation Science Helicopter AAS Proposed			
Without Instrument Rating				Without Instrument Rating			
First Term				First Term			
AVS 110	Helicopter: Private Pilot Ground		4	AVS 110	Helicopter: Private Pilot Ground		4
AVS 115	Helicopter: Private Pilot Flight		3	AVS 115	Helicopter: Private Pilot Flight		3
AVS 107	Flight Prep Level I		1		<b>OR</b>		
AVS 127	Introduction to Aviation		4	<b>AVS 111</b>	<b>Helicopter Pre-Solo</b>		<b>1</b>
General Education			4	<b>AVS 112</b>	<b>Helicopter Private Cross Country</b>		<b>1</b>
			<b>Total</b>	<b>16</b>	<b>AVS 113</b>	<b>Helicopter Private Proficiency</b>	<b>1</b>
Second Term				AVS 107	Flight Prep Level I		1
AVS 137	Applied Aerodynamics		4	AVS 127	Introduction to Aviation		4
AVS 150	Helicopter: Commercial Ground		3	General Education			4
AVS 155	Helicopter: Introduction to Commercial Flight		3				<b>Total</b>
AVS 107	Flight Prep Level I		1	<b>Second Term</b>			
GS 109	Meteorology*		4	AVS 137	Applied Aerodynamics		4
			<b>Total</b>	<b>15</b>	AVS 150	Helicopter: Commercial Ground	3
Third Term				AVS 155	Helicopter: Introduction to Commercial Flight		3
AVS 157	Aircraft Systems & Structures I: Airframe		3	<b>OR</b>			
PHY 101	Fundamentals of Physics I*		4	<b>AVS 151</b>	<b>Helicopter Commercial XC</b>		<b>1</b>
	Or			<b>AVS 152</b>	<b>Helicopter Intro to Commerical Basics</b>		<b>1</b>
PHY 201	General Physics*		4	<b>AVS 153</b>	<b>Helicopter Commercial Basic Practice</b>		<b>1</b>
AVS 205	Helicopter/Commerical Flight		3	AVS 107	Flight Prep Level I		1
AVS 207	Flight Prep Level II		1	GS 109	Meteorology*		4
Approved Electives			5				<b>Total</b>
			<b>Total</b>	<b>16</b>	<b>Third Term</b>		
Fourth Term				AVS 157	Aircraft Systems & Structures I: Airframe		3
AVS 227	Aviation Careers		4	PHY 101	Fundamentals of Physics I*		4
AVS 260	Helicopter: CFI Ground		4	Or			
AVS 265	Helicopter: CFI Flight		3	PHY 201	General Physics*		4
AVS 207	Flight Prep Level II		1	AVS 205	Helicopter/Commerical Flight		3
AVS 167	Aircraft Systems & Structures II: Powerplant		3	<b>OR</b>			
			<b>Total</b>	<b>15</b>		<b>Helicopter Instrument Intro</b>	<b>1</b>
Fifth Term				<b>AVS 212</b>	<b>Helicopter Instrument Procedures</b>		<b>1</b>
AVS 237	Aviation Law and Regulations		4	<b>AVS 213</b>	<b>Helicopter Avanced Commercial</b>		<b>1</b>
Approved Electives			8	<b>AVS 214</b>	<b>Helicopter Commercial Test Prep</b>		<b>1</b>

	<b>Total</b>	<b>12</b>	AVS 207	Flight Prep Level II	<b>1</b>
<b>Sixth Term</b>			Approved Electives		<b>5</b>
AVS 267	Economics of Flight Operations	<b>4</b>		<b>Total</b>	<b>16</b>
Approved Electives		<b>8</b>	<b>Fourth Term</b>		
General Education		<b>4</b>	AVS 227	Aviation Careers	<b>4</b>
	<b>Total</b>	<b>16</b>	AVS 260	Helicopter: CFI Ground	<b>4</b>
	<b>Total</b>	<b>90</b>	AVS 265	Helicopter: CFI Flight	<b>3</b>
			<b>OR</b>		
			<b>AVS 261</b>	<b>Helicopter Intro to CFI</b>	<b>1</b>
			<b>AVS 262</b>	<b>Helicopter CFI Development</b>	<b>1</b>
			<b>AVS 263</b>	<b>Helicopter CFI Test Prep</b>	<b>1</b>
			AVS 207	Flight Prep Level II	<b>1</b>
			AVS 167	Aircraft Systems & Structures II: Powerplant	<b>3</b>
				<b>Total</b>	<b>15</b>
			<b>Fifth Term</b>		
			AVS 237	Aviation Law and Regulations	<b>4</b>
			Approved Electives		<b>8</b>
				<b>Total</b>	<b>12</b>
			<b>Sixth Term</b>		
			AVS 267	Economics of Flight Operations	<b>4</b>
			Approved Electives		<b>8</b>
			General Education		<b>4</b>
				<b>Total</b>	<b>16</b>
				<b>Total</b>	<b>90</b>

**Degrees and Certificates Consent Agenda**  
**June 3, 2009**

1. Related Instruction: Emergency Medical Technician
2. CAS: Website Development and Design Certificate: Addition of CAS 275 as an elective.
3. CAS: Website Development and Design Degree: Addition of CAS 275 as an elective.
4. CAS: Website Development and Design Certificate: Addition of CAS 225 as an elective.

## Template for Related Instruction in Certificates

<b>1 Year Certificate</b>		<b>Emergency Medical Technician</b>			Related instruction Hours in:			
Enter course information in light yellow areas (totals will be automatically calculated)								
Subject Code	Course Number	Course Title	Credits	Hours	Computation	Communication	Human Relation	Total RI
<i>Example: BKT</i>	<i>101</i>	<i>Basket Weaving Basics</i>	3	90	6	12	8	<b>26</b>
<i>EMT</i>	<i>100</i>	<i>Introduction to EMS</i>	3	90				<i>No RI</i>
EMT	105	EMT Basic Part 1	5	150	20			<b>20</b>
EMT	106	EMT Basic Part 2	5	150	24			<b>24</b>
EMT	113	Em Resp Communications	2	60				<i>No RI</i>
EMT	114	Em Resp Transportation	2	60	6			<b>6</b>
EMT	115	Crisis Intervention	3	90				<i>No RI</i>
EMT	116	EMT Rescue	3	90	6			<b>6</b>
EMT	118	Medical Terminology	3	90				<i>No RI</i>
				0				<i>No RI</i>
				0				<i>No RI</i>
PSY 101 or higher			4	120				<i>No RI</i>
SP 111 Public Speaking or Higher			4	120				<i>No RI</i>
				0				<i>No RI</i>
				0				<i>No RI</i>
				0				<i>No RI</i>
				0				<i>No RI</i>
<b>Totals</b>			<b>26</b>	<b>1020</b>	<b>56</b>	<b>0</b>	<b>0</b>	<b>56</b>
Minimum for 1 yr certificate:					54	54	54	<b>270</b>
Remaining to meet Min. Requirement:					0	54	54	<b>214</b>