

Degrees and Certificates Meeting Agenda

June 4, 2008

- 2:15 (New) AAS Retail Management Cheryl Scott Retail Management
- 2:30 (Revision) AAS Web Site Development and Design-Ron Bekey
(Revision) Certificate Web Site Development and Design-Rob Bekey
- 2:45 (New) Certificate Industrial Maintenance Technology-Lori Gates/Fred Smith
(New) AAS Industrial Maintenance Technology-Lori Gates/Fred Smith
- 3:00 (Revision) Certificate-Paraeducator-Gabe Hunter-Bernstein
(Revision) AAS Paraeducator-Gabe Hunter-Bernstein
- 3:15 (New) AAS Mechatronic/Automation/Robotics-Sanda Williams
(New) AAS Renewable Energy Systems-Sanda Williams
- 3:30 (Revision) AS/AAOT-Henry Mesa
- 3:45 (New) Certificate-Horticultural Therapy-Jan Abushakrah
(New) Certificate-Therapeutic Horticulture-Jan Abushakrah
(Revision) AAS-Gerontology-Jan Abushakrah
(Revision)Certificate-Gerontology-Jan Abushakrah
- 4:00 Rebecca Mathern Update

PORTLAND COMMUNITY COLLEGE

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

Proposed Degree/Certificate Title: Retail Management

Reason for New Degree/Certificate: New Statewide Degree as set by the local advisory committee and by the Oregon Retail Management Community College Consortium. This degree is an extension of the current certificate that was recently approved by PCC in Retail Management.

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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Students completing this degree should have the skills necessary for successful employment in a variety of retail supervisory and management positions, advancing to store manager level responsibilities.• Students will learn soft and hard skills in technology and communication that will enable them to be effective in their roles within the retail environment.

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
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Course Number	Course Title	Credit
BA 131	Introduction to Business Computing	4
or CIS 120		3
BA 285	Human Relations in Business	4
MTH 30	Business Math	
or MTH 60 or higher		4
WR 121	English Composition	4
BA 205	Solving Communication Problems with Technology	3
BA 206	Management Fundamentals	3
BA 223	Principles of Marketing	4
SP 111	Public Speaking	3
BA 111 or	Introduction to Accounting	
BA 211		3
BA 224	Human Resource Management	3
BA 249	Principles of Retailing and E-tailing	3
BA 212	Principles of Accounting II	4
BA 226	Business Law I	3
BA 251	Supervisory Management	1
HE 110	Cardiopulmonary Resuscitation	4
SP 140	Introduction to Intercultural Communication	3
BA 213	Principles of Accounting III	3
BA 250	Small Business Management	4
EC 201	Principles of Economics I	4
SP 130	Business and Professional Speech Communication	3
BA 238	Sales	2
BA 280A	Cooperative Work Experience	4
EC 202	Principles of Economics II	14
BA Electives		
Total Credits		90

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

Contact Information:

Submitted by: Cheryl L. Scott
 Contact e-mail: cscott@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: Web Site Development and Design

Proposed Degree/Certificate Title: same

Reason for Revision:

Addition of one-credit Multimedia course. This will simplify the class registration process for students, who currently need to obtain approval for taking MM 120 without taking MM 110 first. The Multimedia department has assured us that the MM 110 class will have value for our web students.

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

Current Degree/Certificate Outcome
<ul style="list-style-type: none"> communicate effectively about web-related topics develop web pages and web sites that meet industry standards demonstrate basic competency in web design demonstrate advanced expertise in either web programming or web

- design and complete a web-related project.

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 pages from PCC catalog.	

Proposed

Course Number	Course Title	Credit
The format of this degree does not fit this form. Please see the change on the right.	One change only: Add MM 110 (Introduction to Multimedia), 1 credit.	

Total Number of Credits in Degree/Certificate:

Current Credits: 93

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.
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.

CAS 232	Desktop Publishing: InDesign	3
CIS 178	Applied Internet Concepts	4

Business Administration Electives

BA 101	Introduction to Business	4
BA 177	Payroll Accounting	3
BA 203	Intro to International Business	3
BA 207	Introduction to E-Commerce	4
BA 212	Principles of Accounting II	3
BA 223	Principles of Marketing	3
BA 224	Human Resource Management	3
BA 226	Business Law	4
BA 228	Computer Accounting Applications	3
BA 238	Sales	3
BA 239	Advertising	3
BA 242	Introduction to Investments	3

WEB SITE DEVELOPMENT AND DESIGN AAS DEGREE

Minimum 93 credit hours which includes 77 credit hours of required program courses plus General Education credit hours and electives. Students must also meet Associate Degree Comprehensive Requirements and Associate of Applied Science Requirements. This includes Math 65 (not required if students have passed the math competency exam).

CAREER AND PROGRAM DESCRIPTION

Web design and development represents a significant and growing industry segment that combines computer programming, extensive knowledge of software applications and proficiency in multimedia techniques. This program prepares students to plan, create, manage, supervise, and market web-based business operations, products, and services. These skills are transferable to a wide variety of web-related careers.

The Computer Applications/Office Systems (CAS/OS), Computer Information Systems (CIS) and Multi-Media (MM) Departments have partnered to create an Associate of Applied Science (AAS) two-year degree option. This interdisciplinary degree option combines back-end programming and development skills with front-end design skills to prepare students for a wide variety of web-related careers. Furthermore, students in this program will learn the designing, implementing, testing, and troubleshooting skills needed for web site construction and e-commerce applications, as well as incorporating multimedia techniques into web sites with audio and video applications.

In addition to foundational Web Design and Development skills, this degree has two distinct focuses for students to choose from:

Web Development – This emphasis will focus on web application development, networking, and server setup.

Web Design – This emphasis will focus on multimedia, graphical as well as layout aspects of web site design.

PREREQUISITES AND REQUIREMENTS

Students must be competent with basic composition and math skills, word processing, spreadsheet, and basic formatting skills for common office documents. Basic browser navigation, searching the web, and file management skills are also essential to be successful in this program. Recommended classes to obtain these skills: WR 121, MTH 20, CAS 104, CAS 133, CAS 170, CAS 216, OS 120, BA 101, BA 131. All CAS/OS courses applied to this certificate must be passed with a “C” grade or better.

COURSE OF STUDY

All students must complete General Education and Development and Design Requirements. Students will choose either the Development Emphasis or the Design Emphasis. Students must take all courses listed under Requirements for the chosen emphasis. They must also choose sufficient credits from the Electives section to make up the rest of the 93 credits for the degree.

Development and Design Requirements- 56 credits minimum

CAS 111D	Beginning Web Site Creation: Dreamweaver	3
CAS 112D	Intermediate Dreamweaver	3
CAS 206	Principles of HTML/XHTML	4
CAS 215	CSS and Dynamic HTML	4
CIS 120	Computer Concepts I	4*
CIS 121	Computer Concepts II	4*
CIS 178	Applied Internet Concepts	4
MM 120	Multimedia Design	2
CAS 208	Beginning PhotoShop for the Web	3
BA 207	Introduction to E-Commerce	4
	or CIS 243 E-ssentials of E-Commerce Information Systems	4
BA 223	Principles of Marketing	3
	or BA 239 Advertising	3
BA 205	Solving Communication Problems with Technology	4
	or MM 270 Writing for Multimedia	3
	or WR 227 Technical Writing I	4
BA 101	Introduction to Business	4
CAS 280W	Cooperative Education: Web Site Development	4
MSD 279	Project Management	3
WR 121	English Composition	4

Development Emphasis Requirements- 28 credits

CAS 213	Enhancing Web Pages with JavaScript	4
	or CIS 233S Internet Web Page Scripting	4
CAS 214	Beginning ColdFusion	4
	or CIS 234S Web Application Development Using .NET	4
	or CIS 195P PHP Web Development I	4
CIS 122	Software Design	4
CIS 133B	Introduction to Visual Basic .NET Programming	4
	or CIS 133J Java Programming I	4
CIS 125D	Database Application Development I	4
CIS 287I	Web Server Administration	4
CIS 179	Data Communication Concepts I	4

Design Emphasis Requirements- 27 credits

CAS 175	Introduction to Flash	3
ART 115	Basic Design	3*
ART 116	Basic Design	3*
MM 130	Multimedia Graphic Video and Audio Production	3
MM 140	Multimedia Authoring I	3
MM 160	Marketing Yourself as a Multimedia Professional	2
MM 220	Multimedia Design II	3

MM 230	Graphics for Multimedia	4
MM 231	Vector Graphics & Animation for the World Wide Web	3

Development and Design Electives - Choose classes to make 93 credits total

CIS 275	Data Modeling and SQL Introduction	4
CIS 276	Advanced SQL	4
CIS 233B	Intermediate Visual Basic .NET Programming	4
or CIS 233J	Java Programming II	4
CIS 234B	Advanced Visual Basic .NET Programming	4
or CIS 234J	Java Programming III	4
ART 140	Digital Photography	3
ART 197	Artist's Skills/Practical Issues	3
MM 235	Digital Video Editing and Production	3
MM 236	Internet Delivery of Digital Video and Audio Files	3
MM 245	Internet Delivery Methods	3
CAS 110	Introduction to Web Graphics Fireworks	1
CAS 246	Integrated Computer Projects	4
Any other course in either emphasis area		

* Up to 2 of these classes may be used toward General Education requirements.

COMPUTER APPLICATIONS/OFFICE SYSTEMS CERTIFICATE

CAREER AND PROGRAM DESCRIPTION

The Computer Applications and Office Systems Certificate is intended to meet business career needs for entry-level administrative assistants, secretaries, receptionists, file clerks and data entry personnel. Workers in these positions may perform a wide variety of duties such as working with office technology to produce and file business documents, greeting the public, planning and scheduling, accounting, and creating web pages.

Students who successfully complete the one-year certificate, 52 credits, will develop skills and knowledge appropriate to basic entry-level office work.

PREREQUISITES AND REQUIREMENTS

Placement in WR 115 and in MTH 20 and keyboarding by touch or CAS 121. All CAS/OS courses must be passed with a "C" grade or better.

COURSE OF STUDY

Programs are located at Cascade, Rock Creek and Sylvania campuses. The program emphasis is on use of computers, document preparation and editing, filing, and use of the Internet.

These courses are not listed in the order in which they should be completed. It is critical that you see a CAS/OS instructor or pick up a "Recommended Course Sequence" handout to use when planning your schedule. Recommended course sequence will differ from campus to campus.

Required Courses

PORTLAND COMMUNITY COLLEGE

Associate of Applied Science/Certificate Revision Request Form

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

Proposed Degree/Certificate Title: same

Reason for Revision:

1) Addition of one-credit Multimedia course. This will simplify the class registration process for students, who currently need to obtain approval for taking MM 120 without taking MM 110 first. The Multimedia department has assured us that the MM 110 class will have value for our web students.

2) Approval of Related Instruction (embedded). This degree was created before there were Related Instruction requirements. The course changes required for this were approved by the Curriculum Committee at their April 2008 meeting.

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
<ul style="list-style-type: none">Develop JavaScript extensions to web pagesUpload, test and deploy web pages containing JavaScript

Current Degree/Certificate Outcome
<ul style="list-style-type: none">Develop competence in business-level communication skills

- Demonstrate proficiency in key web site development tools
- Demonstrate familiarity in a variety of additional web site development tools
- Demonstrate familiarity with business issues, especially as they relate to web site development
- Identify key issues in telecommunications, security and scalability
- Identify key design issues including human factors, visual interface, customer and business partner considerations.

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 pages from PCC catalog.	

Proposed

Course Number	Course Title	Credit
The format of this degree does not fit this form. Please see the change on the right.	One change only: Add MM 110 (Introduction to Multimedia), 1 credit.	

Total Number of Credits in Degree/Certificate:

Current Credits: 48

Proposed Credits: 49

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.
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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Template for Related Instruction in Certificates

1 Year Certificate		CAS/OS Web Site Development and Design			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
CAS	111D	Beg Web Site: Dreamweaver	3	90	15	20	15	50
CAS	112D	Int Web Site: Dreamweaver	3	90	15	20	15	50
CAS	206	Principles HTML/XHTML	4	120	15	20	15	50
CIS	178	Applied Internet Concepts	4	120	10	10	10	30
BA	205	Solv. Communication Pr. Tech.	3	90		90		90
CAS	280W	Cooperative Education	2	60			30	30
				0				No RI
				0				No RI
				0				No RI
Totals			0	0	55	160	85	300
Minimum for 1 yr certificate:					54	54	54	270
Remaining to meet Min. Requirement:					0	0	0	0

Course Notes:

CAS 111D, CAS 112D, CAS 206, CIS 178: Related Instruction shown above approved at Curriculum Committee meeting, April 2008.

BA 205: This course is 100% communications. Outcomes:

- A. Develop listening, speaking, and writing skills necessary for effective business communications.
- B. Research, write, and edit business documents. C. Select and use appropriate technology for business communication needs.
- D. Enhance collaborative teamwork skills. E. Create resume and cover letter.

CAS 280W: This class is Cooperative Education (work experience) which is at least 50% Human Relations. Outcomes:

Evaluate his/her strengths as compared to the employer's needs. Apply job acquisition techniques. Negotiate a training package.

Promote linkages between the employer, student, and coordinator/instructor

Participate in the preparation of a written contract which details: expected work performance, anticipated time commitments, and

maintenance of student attendance records. Maintain a good work relationship by: performing duties outlined in the written contract, adhering to agreed-upon time commitments, keeping employer informed of progress on assigned projects.

Participate in a meeting of with employer and/or coordinator/instructor to discuss student progress.

CAS 133 Basic Computer Skills/Microsoft Office 3-4
or

CAS Elective

CAS 216 Beginning Word	3
CAS 170 Beginning Excel	3
MTH 30 Business Math	4
CAS 123 Production Keyboarding	3
CAS 246 Integrated Computer Projects	4
OS 120 Business Editing Skills	4
OS 131 10-Key on Calculators	1
OS 240 Filing & Records Management	4
OS 245 Office Systems and Procedures	4
BA 111 Introduction to Accounting	3
BA 205 Solving Communication Problems with Technology	4
BA 285 Human Relations-Organizations	3
WR 121 English Composition	4
General Education	3-4

CAS/OS Electives 3 credits minimum

CAS 103 Introduction to Windows	1
CAS 104 Basic Internet Skills	1
CAS 106 HTML	1
CAS 109 Beginning PowerPoint	1
CAS 111D Beginning Web Site Creation: Dreamweaver	3
or	
CAS 111F Beginning Web Site Creation: FrontPage	3
CAS 122 Keyboarding for Speed and Accuracy	3
CAS 140 Beginning Access	3
CAS 150 Intro to Speech Recognition	1
CAS 171 Intermediate Excel	3
CAS 217 Intermediate Word	3
CAS 231 Publisher	3
CAS 232 Desktop Publishing: InDesign	3
OS 280F Cooperative Education: Administrative Assistant	1-2

Minimum 15 CAS/OS credits completed before enrolling

OS 280G Cooperative Education: Administrative Assistant: Seminar 1

Minimum 15 CAS/OS credits completed before enrolling. Concurrent enrollment in OS 280F

WEB SITE DEVELOPMENT AND DESIGN CERTIFICATE

CAREER AND PROGRAM DESCRIPTION

A Web Site Development and Design Certificate is intended to meet business career needs for entry-level positions that assist web site developers, HTML programmers, web designers, web producers, and web technologists. Certificate completers will be able to create functional web sites and assist in the production of professional dynamic web sites. Administrative support personnel and entrepreneurs will gain the necessary skills to develop and manage departmental and personal web sites.

Students who successfully complete the Web Site Development and Design Certificate, 48 credits, will develop skills and knowledge appropriate to an entry-level position in a web-related career. Students will also gain “hands-on” experience of the applications used to produce professional web sites.

PREREQUISITES AND REQUIREMENTS

Students must be competent with basic composition and math skills, word processing, spreadsheet, and basic formatting skills for common office documents. Basic browser navigation, searching the web, and file management skills are also essential to be successful in this program. Recommended classes to obtain these skills: WR 121, MTH 20, CAS 104, CAS 133, CAS 170, CAS 216, OS 120, BA 101, BA 131. All CAS/OS courses applied to this certificate must be passed with a “C” grade or better.

COURSE OF STUDY

Programs are located at Cascade, Rock Creek, and Sylvania campuses. The program is targeted to students and working professionals who wish to specialize in web site creation and maintenance.

These courses are not listed in the order in which they should be completed. It is critical that you see a CAS/OS instructor or pick up a “Recommended Course Sequence” planning sheet to use when planning your schedule. Recommended course sequences will differ from campus to campus.

Required Courses - Minimum 36 credits

CAS 208 Beginning Photoshop for the Web	3
CAS 111D Beginning Web Site Creation:	
Dreamweaver	3
CAS 112D Intermediate Dreamweaver	3
CAS 175 Introduction to Flash	3
CAS 206 Principles of HTML/XHTML	4
CAS 215 CSS and Dynamic HTML	4
CAS 280W Cooperative Education:	
Web Site Development	2
CIS 178 Applied Internet Concepts	4
BA 207 Introduction to E-Commerce	4
or CIS 243 Essentials of E-Commerce	
Information Systems	4
MM 120 Multimedia Design	2
BA 205 Solving Communication	
Problems with Technology	4
or MM 270 Writing for Multimedia	3
BA 223 Principles of Marketing	3
or BA 239 Advertising	3
Restricted Electives - Total to equal 12 credits	
CAS 110 Introduction to Web Graphics	
Fireworks	1
CAS 111F Beginning Web Site Creation:	
FrontPage	3
CAS 213 Enhancing Web Pages with	
JavaScript	4
CAS 214 Beginning ColdFusion	4
CAS 246 Integrated Computer Projects	4
MM 130 Multimedia Graphics Video	
&Audio Production	3
MM 140 Multimedia Authoring I	3
MM 230 Graphics for Multimedia	4
MM 231 Vector Graphics & Animation	
for the World Wide Web	3

PORTLAND COMMUNITY COLLEGE

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

Proposed Degree/Certificate Title: Industrial Maintenance Technology
(45 Credits -- One Year Certificate)

Reason for New Degree/Certificate: Local Industry request for Hampton and Stimson sawmills plus
interest from other organizations

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
<ul style="list-style-type: none">• 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
<p>* Apply concepts gained in composition to develop and present public presentations in professional settings.</p> <p>* Use concepts of the scientific and mathematical method in areas ranging from biological and physical sciences to applications of electrical theory, rigging and hydraulics commonly used in modern world class manufacturing.</p> <p>* Apply various theories of interpersonal and individual relationships and constructive team participation in work situations where common goals exist.</p>

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
MTH 65*	Introductory Algebra	4
WR 121*	English Composition	4
CIS 120	Computer Concepts 1	4
SP 111	Public Speaking	4
PSY 101	Psychology and Human Relations	4
BI 101	General Biology	4
HE 125	First Aid & Industrial Safety	3
IMT 102	Industrial Safety (OSHA)	3
IMT 104	Rigging	3
IMT 105	Industrial Hydraulics I	3
WLD 111	SMAW (E7024) & Oxy-acetylene Cutting	4
WLD 102	Blueprint Reading	4
	Electives from AAS technical core or academic prerequisites	9
<p>*Do not need to enroll in this course simply demonstrate proficiency through test or enrollment that uses these courses as prerequisite.</p>		
Total Credits		45-53

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 Machine/manufacturing courses to be used and asked SAC chair to assist with program. Facilities Maintenance Tech SAC has reviewed and approved proposed program and courses.

Contact Information:

Submitted by: Lori Gates/Fred Smith
 Contact e-mail: Gates@TillamookBay.cc/Smith@TillamookBay.cc

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.
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PORTLAND COMMUNITY COLLEGE

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

Proposed Degree/Certificate Title: Industrial Maintenance Technology
(Associate of Applied Science)

Reason for New Degree/Certificate: Local Industry request for Hampton and Stimson sawmills plus interest from other organizations

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
<ul style="list-style-type: none">• 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
<p>* Integrate scientific and mathematical concepts in diagnosis and repair of industrial equipment.</p> <p>* Apply scientific and mathematical concepts as well as technological applications in the improvement of work process and production efficiencies in a work place.</p> <p>* Apply concepts from communication and personality disciplines to aid team building process and product improvement as well as assist in other life roles.</p>

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
MTH 65*	Introductory Algebra	(4)
WR 121*	English Composition	4
CIS 120	Computer Concepts 1	4
SP 111	Public Speaking	4
	General Education Requirement: Social Science	4
	General Education Requirement: Science/Math	4-5
HE 125	First Aid & Industrial Safety	3
IMT 102	Industrial Safety (OSHA)	3
IMT 104	Rigging	3
IMT 105	Industrial Hydraulics I	3
WLD 111	SMAW (E7024) & Oxy-acetylene Cutting	4
WLD 102	Blueprint Reading	4
IMT 118	Bearings, Seals & Lubrication	3
IMT 120	Drive Systems	3
IMT 200	Pumps & Valves	3
IMT 209	Pipe Fitting	3
MCH 121	Manufacturing Processes 1	4
IMT 204	Pneumatics	2
IMT 220	Proportional Hydraulics	3
IMT 222	Statistical Process Control Applications	3
IMT 230	Techniques of Preventive Maintenance	3
MCH 220	Manufacturing Processes II	4
Electives	As Needed to Reach 90 credits for AAS	19 - 23
*Do not need to enroll in this course simply demonstrate proficiency through test or enrollment that uses these courses as prerequisite.		
Total Credits		90

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 Machine/manufacturing courses to be used and asked SAC chair to assist with program. Facilities Maintenance Tech SAC has reviewed and approved proposed program and courses.

Contact Information:

Submitted by: Lori Gates/Fred Smith
 Contact e-mail: Gates@TillamookBay.cc/Smith@TillamookBay.cc

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: One-Year Certificate: Paraeducator

Proposed Degree/Certificate Title: One-Year Certificate: Paraeducator

Reason for Revision:

To align with new statewide certificate

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

Current Degree/Certificate Outcome
<ul style="list-style-type: none">• Apply current education, motivation, human development, technology, and diversity research, theory, and practice to conduct and evaluate individual and small group instruction prescribed by the supervising teacher.• Perform non-instructional tasks necessary to provide clerical, media related, and supervisory support to the classroom teacher.• Use established behavior management programs and instructional routines to carry out the goals and objectives of the school.

- Practice ethical and professional behaviors and attitudes necessary to the role of an educator; apply knowledge of legal, ethical, health, and safety considerations and procedures; demonstrate understanding of the roles of paraeducators as collaborative team members and communicate effectively with others in the educational setting.
- Adapt learning activities and materials to accommodate the needs of diverse learners.
- Demonstrate math competency at introductory algebra level
- Demonstrate reading competency at college level
- Demonstrate writing competency at college level
- • Demonstrate and apply knowledge of specific effective instructional practices and management techniques for students who are learning English or who have special needs.

Does Revision involve changing Degree/Certificate Outcomes?

No Yes

If Yes, list proposed outcomes:

Proposed Degree/Certificate Outcome
<ul style="list-style-type: none"> • Apply current education, motivation, human development, technology, and diversity research, theory, and practice to conduct and evaluate individual and small group instruction prescribed by the supervising teacher. • Perform non-instructional tasks necessary to provide clerical, media related, and supervisory support to the classroom teacher. • Use established behavior management programs and instructional routines to carry out the goals and objectives of the school. • Practice ethical and professional behaviors and attitudes necessary to the role of an educator; apply knowledge of legal, ethical, health, and safety considerations and procedures; demonstrate understanding of the roles of paraeducators as collaborative team members and communicate effectively with others in the educational setting. • Adapt learning activities and materials to accommodate the needs of diverse learners. • Demonstrate academic competencies required to work as a "highly qualified" paraeducator as defined by No Child Left Behind. <ul style="list-style-type: none"> • • Demonstrate and apply knowledge of specific effective instructional practices and management techniques for students who are learning English or who have special needs. • Meet the following statewide certificate outcomes and apply that knowledge and skill in the educational setting: <ul style="list-style-type: none"> • 1. Demonstrate appropriate strategies and techniques to provide instructional support to students of diverse populations. • 2. Demonstrate attitudes and behaviors that are appropriate to meeting the needs of diverse populations. • 3. Apply best practices in classroom management to optimize the potential for student learning. • 4. Practice ethical and legal standards of conduct. • 5. Apply technology to support teaching, learning and communication.

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: 51

Proposed Credits: 51

Contact Information:

Submitted by: Gabe Hunter-Bernstein

Contact e-mail: ghunterb@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

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

Current Degree/Certificate Title: AAS Degree: Paraeducator

Proposed Degree/Certificate Title: AAS Degree: Paraeducator

Reason for Revision:

To align with new statewide certificate

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

Current Degree/Certificate Outcome
<ul style="list-style-type: none">• Apply current education, motivation, human development, technology, and diversity research, theory, and practice to conduct and evaluate individual and small group instruction prescribed by the supervising teacher.• Perform non-instructional tasks necessary to provide clerical, media related, and supervisory support to the classroom teacher.• Use established behavior management programs and instructional routines to carry out the goals and objectives of the school.

- Practice ethical and professional behaviors and attitudes necessary to the role of an educator; apply knowledge of legal, ethical, health, and safety considerations and procedures; demonstrate understanding of the roles of paraeducators as collaborative team members and communicate effectively with others in the educational setting.
- Adapt learning activities and materials to accommodate the needs of diverse learners.
- Demonstrate math competency at introductory algebra level
- Demonstrate reading competency at college level
- Demonstrate writing competency at college level
 - Demonstrate and apply knowledge of specific effective instructional practices and management techniques for students who are learning English or who have special needs.
 - Demonstrate breadth of knowledge in educational theory and practice in addition to area of certificate emphasis.
 - Demonstrate breadth of knowledge across several disciplines in Humanities, Social Science, and Mathematics/Science.

Does Revision involve changing Degree/Certificate Outcomes?

No Yes

If Yes, list proposed outcomes:

Proposed Degree/Certificate Outcome
<ul style="list-style-type: none"> • Apply current education, motivation, human development, technology, and diversity research, theory, and practice to conduct and evaluate individual and small group instruction prescribed by the supervising teacher. • Perform non-instructional tasks necessary to provide clerical, media related, and supervisory support to the classroom teacher. • Use established behavior management programs and instructional routines to carry out the goals and objectives of the school. • Practice ethical and professional behaviors and attitudes necessary to the role of an educator; apply knowledge of legal, ethical, health, and safety considerations and procedures; demonstrate understanding of the roles of paraeducators as collaborative team members and communicate effectively with others in the educational setting. • Adapt learning activities and materials to accommodate the needs of diverse learners. • Demonstrate academic competencies required to work as a "highly qualified" paraeducator as defined by No Child Left Behind. <ul style="list-style-type: none"> • Demonstrate and apply knowledge of specific effective instructional practices and management techniques for students who are learning English or who have special needs. • Apply breadth of knowledge in educational theory and practice in addition to area of certificate emphasis. • Demonstrate breadth of knowledge across several disciplines in Humanities, Social Science, and Mathematics/Science. • Meet the following statewide certificate outcomes and apply that knowledge and skill in the educational setting: <ul style="list-style-type: none"> • 1. Demonstrate appropriate strategies and techniques to provide instructional support to students of diverse populations. • 2. Demonstrate attitudes and behaviors that are appropriate to meeting the needs of diverse populations. • 3. Apply best practices in classroom management to optimize the potential for student learning. • 4. Practice ethical and legal standards of conduct. • 5. Apply technology to support teaching, learning and communication.

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: 51

Proposed Credits: 51

Contact Information:

Submitted by: Gabe Hunter-Bernstein

Contact e-mail: ghunterb@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: Mechatronics/Automation/Robotics

Reason for New Degree/Certificate: To assist the job market for mechatronics/automation/robotics

Requested Implementation Term: fall 2008/winter 2009

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
<ul style="list-style-type: none">• 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
<p>This is an EET option, therefore the outcomes align with the EET outcomes but in the specific field.</p> <p>Upon completion of this option graduates will have a good understanding of the basic principles of design/manufacturing/operation of robots/automated systems and apply these principles in the working place. Some of the tasks they can perform would be:</p> <ul style="list-style-type: none">• Install, calibrate, and maintain industrial sensors, actuators, and mechanisms for process or motion control systems• Assist with industrial computer, industrial controller, and robotic programming• Integrate hydraulic, pneumatic, electrical, and electronic components into automation or robotic systems• Construct prototypes and perform testing during system development• Start up automation systems and perform system shakedowns• Install and maintain industrial communications networks• Maintain documentation associated with automation systems, including device and system specifications, startup and shakedown paperwork, and maintenance logs• Provide field support troubleshooting and repair<ul style="list-style-type: none">• Follow safe industrial work practices

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
MTH111C	College Algebra	5
PHY 201	General Physics	4
EET 112	Electric Circuit Analysis II	5
EET 122	Digital Systems II	3
MTH 112	Elementary Functions	5
EET 188	Industrial Safety	1
PHY 202	General Physics	4
EET 113	Electrical Power	5
EET 123	Digital Systems III	5
CS 161	Computer Science I	4
PHY 203	General Physics	4
	Gen Ed: Social Science	4
CS 162	Computer Science II	4
EET 221	Semiconductor Devices	5
EET 241	Microcomputer Systems	4
DRF 185/ CMET 113 /or DRF 126	AutoCAD Inventor/Engineering Technology Graphics/or Introduction to AutoCAD	3
CMET 213	Fluid Mechanics	3
MCH 121	Manufacturing Processes	4
EET 222	Op-Amp Circuits	5
MCH 158	Project Machine Tech II	3
EET 254	Seminar	1
EET 270	Motors/Generators and Control Systems	3
	Gen Ed: Arts and Letters	4
EET 256/280A	Capstone Project/CE: Electronic Engineering Tech	2
EET 242	Microcontrollers/ Robotics Systems	4
	Technical Electives	4-6
Total Credits		106- 108

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 I contacted all SACs for the courses which do not belong to the EET department

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

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

Proposed Degree/Certificate Title: Renewable Energy Systems

Reason for New Degree/Certificate: To assist the emerging job market in renewable energy field

Requested Implementation Term: fall 2008/winter 2009

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
<ul style="list-style-type: none">• 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
<p>This new option, being an EET option will align with the EET outcomes but in the specific field. Therefore:</p> <p>Upon completion of the Renewable Energy option, graduates will have a good understanding of the basic principles of design/manufacturing/operation of renewable energy technology and apply those principles to a wide variety of systems and applications such as but not limited to:</p> <p>Hydro-electric power generation Wind energy Solar power/Thermal/PV Biomass/Biofuel Fuel cell Other renewable fuels for transportation applications Hybrid Renewable Systems</p> <ul style="list-style-type: none">• Other renewable energy and power technologies

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
MTH111C	College Algebra	5
WR 121	English Composition	4
EET 112	Electric Circuit Analysis II	5
EET 122	Digital Systems II	3
MTH 112	Elementary Functions	5
EET 188	Industrial Safety	1
	Gen Ed: Social Science	4
EET 113	Electrical Power	5
EET 123	Digital Systems III	5
EET 178	PC Architecture for Tech	4
PHY 201	General Physics	4
EET 221	Semiconductor Devices	5
EET 241	Microcomputer Systems	4
PHY 202	General Physics	4
CMET 213	Fluid Mechanics	3
EET 222	Op-Amp Circuits	5
EET 254	Seminar	1
EET 270	Motors/Generators and Control Systems	3
	Gen Ed: Arts and Letters	4
	Technical Related RES Electives	4
	RES Electives	6-9
EET 223	RF Communication	5
EET 256/ 280A	Capstone Project/CE: Electronic Engineering Tech	2
EET 242	Microcontrollers/ Robotics Systems	4
Total Credits		103-106

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 I contacted all SACs for the courses which do not belong to the EET department

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 Arts Oregon Transfer,
Associate of General Studies,
Associate of Science,
Associate of Science Oregon Transfer - Business
Revision Request Form**

Degree:

- AAOT – Associate of Arts Oregon Transfer
- AGS – Associate of General Studies
- AS – Associate of Science
- ASOT – Associate of Science Oregon Transfer – Business

Proposed Revision for: *(check all that apply)*

- General Requirements
- Competencies
- Distribution Requirements
- Comprehensive Requirements
- Other:

Describe revision request, including rationale for revision:

MTH 111A is being deactivated and replaced with MTH 105. Currently MTH 111A serves a course that will satisfy the competencies for the AAOT and AS. Thus, we need to change the AAOT and AS current offering of MTH 111A and replace it with MTH 105 which is an equivalent course whose number is recognized at all Oregon Higher Education institutions.

If revision request includes changes in a degree/course work,

List Current Requirements:

Course Number	Course Title	Credit
MTH 111A	College Algebra - For Liberal Arts	4

List Proposed Requirements:

Course Number	Course Title	Credit
MTH 105	Explorations in Mathematics	4

Request for Implementation term: Fall 2008

Contact Information:

Submitted by: Henry Mesa
Contact e-mail: hmesa@pcc.edu

Next Steps:

1. Save completed AAOT, AGS, AS, ASOT Revision Request Form and Submit as an email attachment to curriculum@pcc.edu.

2. Download and print AAOT, AGS, AS, ASOT Signature Page Form (<http://www.pcc.edu/resources/academic/eac/degree/forms.html>) and get the appropriate signatures.
3. Staple signed AAOT, AGS, AS, ASOT Signature Page Form to a hard copy of AAOT, AGS, AS, ASOT 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: Horticultural Therapy

Reason for New Degree/Certificate: Provides Certificate of Completion meeting educational requirements for certification by the American Horticultural Therapy Association

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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Work effectively as a registered horticultural therapist with diverse populations in therapeutic gardens and horticultural therapy programs within pediatric, geriatric, psychiatric, offender, vocational and medical rehabilitation, and other day or residential treatment facilities.• Design, implement, and evaluate therapeutic garden and horticultural therapy programs meeting the physical, cognitive, and psychosocial needs of special needs clients, and applying professional skills and standards of the field.• Meet educational standards for certification by the American Horticultural Therapy Association as a Horticultural Therapist Registered [HTR], when combined with required educational, continuing education and supervised work experience criteria. [HTR certification requires a Bachelor's degree including 18 credits in psychology, human development and aging, group dynamics, therapy, anatomy and physiology, medical and psychiatric terminology, assistive technology, and professional levels; as well as 18 credits in horticulture, plants, and landscape design].

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
	Basic Activity Director Training	
	Advanced Care Issues	
GRN165	Advanced Care Practice	2
GRN235	Prof Therapeutic Horticulture	2
GRN236	Therapeutic Hort Strategies	2
GRN267	Therapeutic Hort Skills I	2
GRN268	Therapeutic Hort Programming	2
GRN269	Therapeutic Hort Skills II	2
GRN270	Therapeutic Gardens	2
GRN271	CE: Gerontology Internship	2
GRN272	Gerontology Internship Seminar	3
GRN280A	Sociology of Aging	3
GRN280B		1
SOC223		4
Total Credits		27

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 Landscape Technology to offer 18 credits required for certification by AHTA

Contact Information:

Submitted by: Jan Abushakrah
 Contact e-mail: jabushak@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: Therapeutic Horticulture

Reason for New Degree/Certificate: Provides Certificate of Completion qualifying for work in Therapeutic Horticulture program for those without a Bachelor's Degree

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
<ul style="list-style-type: none">• 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
<ul style="list-style-type: none">• Work effectively in an interdisciplinary team to contribute therapeutic horticultural programming to activity programs for diverse populations within pediatric, geriatric, psychiatric, offender, vocational and medical rehabilitation, and other day or residential treatment facilities.• Assist in the design, implementation, and evaluation of therapeutic garden and horticultural therapy programs meeting the physical, cognitive, and psychosocial needs of special needs clients, and applying professional skills and standards of the field.• Pursue continuing education and professional development, including if desired the certification requirements of a Bachelor's Degree with the 36 credits in human services and horticulture specified by the American Horticultural Therapy Association for the Horticultural Therapist Registered designation.

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
	Basic Activity Director Training	
GRN165	Advanced Care Issues	2
GRN235	Advanced Care Practice	2
GRN236	Prof Therapeutic Horticulture	2
GRN267	Therapeutic Hort Strategies	2
GRN268	Therapeutic Hort Skills I	2
GRN269	Therapeutic Hort Programming	2
GRN270	Therapeutic Hort Skills II	2
GRN271	Therapeutic Gardens	2
GRN272	CE: Gerontology Internship	3
GRN280A	Gerontology Internship Seminar	3
GRN280B	Sociology of Aging	1
SOC223	Human Development	4
PSY215	Introduction to Gerontology	4
SOC230	English Composition	4
WR121		4
Total Credits		39

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 Landscape Technology to identify courses in horticulture, plants and landscape design that would enhance this certificate

Contact Information:

Submitted by: Jan Abushakrah
 Contact e-mail: jabushak@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: Gerontology AAS Degree

Proposed Degree/Certificate Title: No Change

Reason for Revision:

Adding courses from new Horticultural Therapy Certificates to Restricted Electives

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
See attached list		

Does Revision involve changing Degree/Certificate Prerequisites?

No Yes

If Yes, please list proposed prerequisites:

Proposed

Course Number	Course Title	Credit
GRN267	Prof Therapeutic Horticulture	2
GRN268	Therapeutic Hort Strategies	2
GRN269	Therapeutic Hort Skills I	2
GRN270	Therapeutic Hort Programming	2
GRN271	Therapeutic Hort Skills II	2
GRN272	Therapeutic Gardens	3

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	
•	Apply skills and knowledge to effective work with and for elders as a gerontology professional, and as a family and community member
•	Use gerontological research and theories to plan, implement, and contribute to programs, policies, and social change strategies for and with elders in professional, institutional and community settings
•	Communicate, collaborate, and access appropriate resources, while working with other professionals and with diverse stakeholders
•	Adhere to professional and ethical standards appropriate to one's gerontological specialty, while managing one's career and taking advantage of continuing learning opportunities
•	If desired, pursue higher education for a bachelor or master degree, beginning at the third-year level

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: 90

Proposed Credits: 90

Contact Information:

Submitted by: Jan Abushakrah

Contact e-mail: jabushak@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

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

Current Degree/Certificate Title: Gerontology 1-Year Certificate

Proposed Degree/Certificate Title: No Change

Reason for Revision:

Adding new course therapeutic horticulture course to restricted electives

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
See attached list		

Does Revision involve changing Degree/Certificate Prerequisites?

No Yes

If Yes, please list proposed prerequisites:

Proposed

Course Number	Course Title	Credit
GRN166	Therapeutic Horticulture in Health and Human Services	1

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">Develop JavaScript extensions to web pagesUpload, test and deploy web pages containing JavaScript

Current Degree/Certificate Outcome
<ul style="list-style-type: none">• Apply skills and knowledge to effective work with and for elders as a gerontology professional, and as a family and community member• Use gerontological research and theories to plan, implement, and contribute to programs, policies, and social change strategies for and with elders in professional, institutional and community settings

- • Communicate, collaborate, and access appropriate resources, while working with other professionals and with diverse stakeholders in service and program delivery
- • Adhere to professional and ethical standards appropriate to one's gerontological specialty, while managing one's career and taking advantage of continuing learning opportunities
- • Work as an age specialist in the area of one's prior work experience, credential or degree (if appropriate)
- • If desired, pursue the additional 45 credits to earn an AAS Degree in Gerontology

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: 46

Proposed Credits: 46

Contact Information:

Submitted by: Jan Abushakrah
Contact e-mail: jabushak@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.

GERONTOLOGY CERTIFICATE & DEGREE 2008-2009

One year Certificate: Gerontology

Students should take GRN181: Exploring the Field of Aging in their first or second term in the program. The **internship (cooperative education)** will provide a unique opportunity for the students to work directly with older adults in different settings. Certificate candidates who are currently working in the field with aging adults and have accumulated at least 200 hours of work experience may petition to receive credit up to 90 (3 credits) hours toward the required hours for worksite placement. Students must complete the program with a grade of "C" or better.

Core Courses: (28 credits)

GRN181	Exploring the Field of Aging	2 credits
GRN 282	Gerontology Professional Seminar	1 credit
PSY 215	Human Development	4 credits
Soc 223	Sociology of Aging	4 credits
Soc 230	Introduction to Gerontology	4 credits
Soc 231	Sociology of Health and Aging	4 credits
Soc 232	Death and Dying: Culture and Issues	4 credits
GRN280B	Gerontology Internship Seminar	1 credit
GRN280A	CE: Gerontology Internship	4 credits

Basic Competencies [Apply to Certificate]

WR 121*	English Composition	4 credits
MTH 20**	Basic Math	4 credits

*Or passing a writing course for which WR 121 is a prerequisite

**Or higher, or passing the PCC competency exam for MTH20

Choose one course from the following Restricted Electives*:

CAS 133	Basic Computer Skills/MS Office	4 credits
CAS 140	Access	3 credits
CAS 170	Excel	3 credits
CAS 216	Beginning Word: WIN	3 credits
CAS 217	Advanced Word: WIN	3 credits
CAS 231	Publisher	3 credits

*This requirement can be met through proof of comparable, work-based computer skills training.

Electives (at least 8 credits from the following courses):

AD 101	Alcohol Use & Addiction	3 credits»
GRN165	Basic Activity Director Training	2 credits
GRN166	Therapeutic Horticulture in Health & Human Services	1 credit
GRN235	Advanced Care Issues	2 credits
GRN236	Advanced Care Practice	2 credits
SOC 204	Sociology in Everyday Life	4 credits»
SOC 205	Social Change & Social Institutions	4 credits
SOC 213	Diversity in the United States	4 credits»
PHL 207	Ethical Issues in Aging	4 credits»
PSY 101	Psychology and Human Relations	4 credits
PSY 214	Introduction to Personality	4 credits
PSY 222	Family & Intimate Relations	4 credits
MP 111	Medical Terminology	4 credits
HPE 295°	Health & Physical Fitness for Life	3 credits
HE 250	Personal Health	3 credits
BA 101	Introduction to Business	4 credits

° HPE295 requires on-campus initial, midterm and final assessments for Lab.

»These courses are required for the AAS Degree.

Note: Students must take Health Education 110 - Cardiopulmonary Resuscitation (1 credit) or acquire training and receive a certificate of completion in the same area from a licensed public or private organization in order to complete the requirements for this certificate.

Associate of Applied Science: Gerontology

Students completing the one-year Gerontology Certificate will have also completed the first year's work toward the Associate degree in Gerontology. Students must meet college graduation requirements including General Education, math and English competencies.

General Education Requirements

All candidates must earn 16 credit hours of General Education. These credits must come from courses taken in the following distribution areas:

1. Arts & Humanities
2. Social Sciences
3. Mathematics, Natural and Physical Sciences

The 16 credit hours must include at least one course from each category and no more than 8 credit hours from any one category. Two of the required courses required in the Gerontology degree may also be used to meet the General Education requirement.

Basic Competencies [Apply for AAS Degree]

WR 121*	English Composition	4 credits
MTH 65**	Introductory Algebra	4 credits

*Or passing a writing course for which WR 121 is a prerequisite

**Or higher, or passing the PCC competency exam for MTH65

Required Courses (21 credits)

AD 101	Alcohol Use & Addiction	3 credits
PHL 207	Ethical Issues in Aging	4 credits
SOC 204	Gen Soc: Sociology in Everyday Life	4 credits
SOC 213	Diversity in the United States	4 credits
GRN280A	CE: Gerontology Internship	6 credits

Restricted Electives (choose 8 credits)

AD 102	Drug Use & Addiction	3 credits
AD 105	Aging and Addiction	3 credits
AD 154	Case Management & Addiction	3 credits
AD 156	Ethical & Professional Issues	3 credits
FT 102	Injury Prevention & Management	2 credits
FT 106	Analysis of Movement	3 credits
FT 131	Structure & Function of the Human Body	4 credits
FT 202	Fitness and Aging	3 credits
GRN265	Activity Professional Training 1	3 credits
GRN266	Activity Professional Training 2	3 credits
GRN267	Professional Therapeutic Horticulture	2 credits
GRN268	Therapeutic Horticulture Strategies	2 credits
GRN269	Therapeutic Horticulture Skills I	2 credits
GRN270	Therapeutic Horticulture Programming	2 credits
GRN271	Therapeutic Horticulture Skills II	2 credits

GRN272	Therapeutic Garden Design, Maintenance & Programming	3 credits
HE 252	First Aid: Basics and Beyond	3 credits
HE 212	Women's Health	3 credits
HE 213	Men's Health	3 credits
HE 242	Stress and Human Health	3 credits
HE 251	Community Health	3 credits
PSY 201	General Psychology	4 credits
PSY 202	General Psychology	4 credits
PSY 214	Introduction to Personality	4 credits
PSY 222	Family & Intimate Relations	4 credits
PSY 231	Human Sexuality	4 credits
PSY 232	Human Sexuality	4 credits
SOC 206	Social Problems	4 credits
SOC 218	Sociology of Gender	4 credits