

Degrees and Certificates

Agenda

December 6, 2006

Sylvania Campus, 2 pm

CC, Conference Rm A

Approval of November's minutes

New Business

New AAS Renewable Energy Technology - 106 credits

New One Year Certificate Wind Energy Technician - 56 credits

Discussion Items: 2:30 - 4 pm

EAC response to Outcome Guidelines and Program Award Guidelines – Susanne
Christopher

D/C Catalog Issues -Veronica Garcia

Certificate of Completion and Pathways - Pamela Murray

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

Proposed Degree/Certificate Title: Renewable Energy Technology - AAS Degree

Reason for New Degree/Certificate: Fulfill industry request

Requested Implementation Term: Fall 2007

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>Upon completion of the degree program, the student will possess and be able to apply knowledge, skills, and abilities in electrical, electronic, and mechanical systems related to a broad array of industrial, mechanical, and manufacturing careers. Specific components include the following:</p> <ul style="list-style-type: none">ElectronicsElectrical maintenanceHydraulics and lubricationBearingsFluid dynamicsProgrammable logic controllersMotor controlsMomentum and forceStatics and dynamics related to frictionAerodynamic principlesPower generation-distribution <ul style="list-style-type: none">• In addition to the above skills, the student will demonstrate the ability to work in a safe environment, communicate well, perform calculations to formulas and apply to solutions, work as a team member or independently, and express the implications of renewable energy on the global society. The graduate will be qualified for mid-level technician positions with renewable energy companies,

engineering firms, and manufacturing firms.

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	Electrical Circuit Analysis I	5
RET 120	Basic/Introductory Hydraulics	5
RET 101	Intro to Wind Turbine Tech I	1
WR 121	English Composition	4
MTH 95	Intermediate Algebra	4
EET 112	ELECTRICAL Circuit Analysis II	5
RET 121	Wind Mechanics I	5
_____	Social Science Elective	4
MTH 111C	College Algebra for Math, Science, and Engineering	5
EET 113	Electrical Circuit Analysis III	5
RET 122	Wind Mechanics II	5
RET 141	Electrical Motor & Generator Controls	3
CAS 133	Basic Computer Skills/MS Office	4
EET 188	Industrial Safety	1
EET 218	Semiconductor Devices	5
EET 121	Digital Fundamentals I	3
PE _____	Physical Education	1
PHY 201	General Physics	5
MTH 112	Elementary Functions (Trig)	5
EET 238	Operational Amplifier Circuits	5
EET 122	Digital Fundamentals II	3
RET 119	Programmable Controllers	3
EET 254	EET Technology Seminar	1
ART/HUM	Art/Humanities Elective	4
EET 255	Industrial Control Systems	4
EET 123	Digital Systems III	5
RET 223	Wind Mechanics III	5
RET 102	Alternate Energy Power Generation	1
Total Credits		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

Contact Information:

Submitted by: Tom Lieurance
 Contact e-mail: tlieurance@cgcc.cc.or.us

PORTLAND COMMUNITY COLLEGE

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

Proposed Degree/Certificate Title: Wind Energy Technician - One Year Certificate

Reason for New Degree/Certificate: To Fulfill industry request

Requested Implementation Term: Fall 2007

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>Upon completion of the certificate program, the student will possess and be able to apply knowledge, skills, and abilities in basic electricity, electronics, and mechanical systems related to wind turbine functions. Specific components include the following:</p> <ul style="list-style-type: none"> • Basic electrical theory • Basic electronics • Basic mechanical systems • Basic aerodynamic principles <p>• In addition to the above skills, the student will demonstrate the ability to work in a safe environment, possess the ability to apply entry-level mathematical formulas to basic wind turbine functions, communicate well within a work team, and have the basic knowledge and skills necessary to successfully complete industry specific training. The graduate will be qualified for entry-level wind energy technician positions.</p>

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	Electrical Circuit Analysis I	5
RET 120	Basic/Introductory Hydraulics	5
RET 101	Introduction to Wind Turbine Technology I	1
WR 121	English Composition	4
MTH 95	Intermediate Algebra	4
EET 112	Electrical Circuit Analysis II	5
RET 121	Wind Mechanics I	5
	Social Science Elective	4
MTH 111C	College Algebra for Math, Science, and Engineering	5
EET 113	Electrical Circuit Analysis III	5
RET 122	Wind Mechanics II	5
RET 141	Electrical Motor and Generator Controls	3
CAS 133	Basic Computer Skills/MS Office	4
EET 188	Industrial Safety	1
Total Credits		56

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:

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