Composites Technology – AAS Degree
Program of Study – Revised Fall 2011

Completion Award: Certificate **Length of Program:** 6 quarters	**Test Fees:** ASSET or COMPASS	$20.00
Program Advisor: Cindy Lauderback **Office: D-113** **Phone:** (360) 417-6241	**Approximate Additional Costs** Books, supplies and miscellaneous fees (per quarter)	$150.00
email: clauderback@pencol.edu	Tools/Equipment – (most purchased first year)	$400.00

Program Description
Peninsula College's Composites Technology Program prepares students for the wide ranging field of composite structure construction and repair as well as the use of catalyzed coatings and paints. This occupational field includes yacht and boat construction and repair, aerospace manufacturing, specialized vintage automobile parts, building construction materials, marine pier construction materials, sport-related equipment construction, and many others.

Safety topics will be in conformance with regulations promulgated under the Occupational Safety and Health Act [OSHA] and/or the Washington Industrial Safety and Health Act [WISHA], as appropriate.

Special Features
The Composite certificate program operates in cooperation with Port Angeles High School, the North Olympic Peninsula Skills Center and local businesses.

Student Learning Outcomes
When the Composite Structures Certificate is completed the student will be able to:

- Execute safety procedures
- Operate tools and equipment safely
- Produce various types of composite structure materials
- Repair composite structures.
- Apply various types of catalyzed coatings and paints

Career Opportunities
Jobs in the boat building industry have remained steady for over 20 years at about 50,000 statewide. Many communities that are located along harbors, inland passages, and other major waterways have experienced an increase in job opportunities in the boat and yacht building cluster. Boat and yacht building and repair companies cluster in these areas to take advantage of waterways, skilled workers, and transportation abilities. In addition, the composite structures skills are transferable to the aerospace, sports and construction industries.

Potential Positions and Earnings
Statewide, the average wage for fiberglass fabricators and laminators in the boat building industry is $13.42 per hour. This occupation appears on the "DEMAND" list for the Olympic Workforce Development Area on the Workforce Explorer Demand/Decline list (October 21, 2010).[1]

Program Prerequisites
College-level skills in English and math (eligibility for courses numbered 100 or higher) are recommended before registering for the English or applied math courses required in this program. Students may need to complete prerequisite coursework. The ASSET or COMPASS test will help determine placement level if not known. Previous coursework may also indicate placement level.

[1] Workforce Explorer - http://www.workforceexplorer.com/cgi/databrowsing/occExplorerQSDetails.asp?searchCriteria=Fiberglass+Laminators+and+Fabricators&careerID=&menuChoice=occExplorer&geogArea=5304000009&soccode=512091&search=Explore+Occupation

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Required Courses		Cr.	Typical Student Schedule
FA 100 or FA 105	Industrial First Aid/CPR	1	Fall/1
Social Science Elective	Elective	5	Spring/2
COMP 115	Composite Structures – Fabrication	10	Fall/1
ENGL& 101	English Composition I	5	Fall/1
COMP 215	Advanced Composite Technology I	11	Fall/2
PHYS&121L	General Physics I	5	Fall/2
MATH 111 Or MATH class 100 level or above with MATH 099 prerequisite.	Finite Mathematics or MATH class 100 level or above with MATH 099 prerequisite.	5	Spring/1
COMP 117	Composite Coating Systems	10	Spring/1
COMP 217	Advanced Composite Technology III	11	Spring/2
COMP 116	Composite Structure Repairs	10	Winter/1
ENGL& 102	English Composition II	5	Winter/1
COMP 216	Advanced Composite Technology II	11	Winter/2
PHYS&122L	General Physics II	5	Winter/2
	CREDITS REQUIRED FOR DEGREE:	**94**	

9-20-11