



NORTHWEST
SCHOOL of WOODEN
BOATBUILDING

SCHOOL CATALOG

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The School's Commitment: Quality Education and Craftsmanship

The Northwest School of Wooden Boatbuilding is committed to providing men and women of all ages a quality education in traditional wooden boatbuilding and fine woodworking. We strive to impart sound, practical knowledge in traditional maritime skills, using wooden boats as the training medium. We hope to immerse our students in the pride and satisfaction that comes from skillful work joyfully executed.

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Official School Catalog

Printed February 2012

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The Northwest School of Wooden Boatbuilding is a not-for-profit 501 (c) (3) educational institution.

THE PACIFIC NORTHWEST

Welcome!

The Pacific Northwest is a great area in which to live, study and play. While attending the Northwest School of Wooden Boatbuilding, you'll find yourself right in the middle of a remarkable playground. Surrounding us are hundreds of miles of protected cruising waters and at our backs tower the snow-clad Olympic Mountains. Hiking, climbing, skiing and sailing are just a few of the many experiences found on the Olympic Peninsula. Pacific Ocean beaches lie a couple of hours to the west and the sunny San Juan Archipelago is 20 miles across the Strait of Juan de Fuca. The region is also close to the metropolitan centers of Victoria and Vancouver, B.C. and Seattle and Tacoma, Washington.

Port Hadlock

Located at the southern end of Port Townsend Bay, Port Hadlock, founded by Samuel Hadlock in 1870, is one of the now more quiet backwaters of busy Puget Sound. Back then, lumber ships, schooners and square riggers lined up to load timbers manufactured by the Washington Mill Company's new sawmill. Hotels, saloons, stores and barbershops sprang up. For thousands of years prior to the arrival of the immigrant Europeans and Asians, Northwest Indian tribes gathered here at what they called *Tsetsibus* to live, visit, gather shellfish, gamble and race their cedar dugout canoes. Today, traces of the Native Peoples' long occupation survive as shellfish middens along the shores. The boat school is located in a small collection of turn-of-the-century wood framed buildings that still stand on the waterfront.

Port Townsend: Victorian Seaport

This historic working seaport of 8,000 people has become a center for the local boatbuilding industry. Boat builders, sailmakers, riggers, blacksmiths and other marine trades people carry on a long maritime tradition. Summer tourists come to shop in the diverse stores along Water Street and to enjoy historic downtown, once home to a boisterous population of sailors, lumbermen, land speculators and those who profited from them. Uptown, stately Victorian homes, many lovingly restored, overlook the harbor. Only ten miles from the school, Port Townsend is a great place to visit and offers a wide variety of cafe, dining and shopping opportunities. It is also home to a vibrant community of locals who enrich the town with their art, music, drama and businesses. Port Townsend is recognized as the wooden boat capital of the West Coast and is host to the annual Wooden Boat Festival.

“Not familiar with the Pacific Northwest, my wife and I were unsure what to expect. We were more than pleased with the natural beauty of both the water and mountains, and the variety of outdoor recreational opportunities. Port Townsend has a diversity of cultural, musical, and civic activities uncommon in a town of its size.” -Bill Brock, graduate



Students of all ages and from across the world are attracted by the school's reputation for providing quality instruction, dedicated instructors and a great setting.



Port Hadlock Heritage Campus

The Northwest School of Wooden Boatbuilding is located along the waterfront of the six-acre Port Hadlock Heritage Campus. The boat school has been acquiring waterfront properties and restoring buildings for a number of years and school facilities currently includes 16,900 square feet of covered space.

The historic, two-story, 7,500 square-foot Captain Westrem Building accommodates a lumber-milling room, two boatshops, the administration offices and the library. The library houses over 1,300 volumes on a wide variety of maritime subjects and several collections of periodicals. Computer stations provide internet access and students may connect remotely from their laptops. Upstairs, the sail loft is equipped with a variety of power sewing machines and several hand-work benches. A master sailmaker teaches courses for the school and conducts his sailmaking and canvas business from this busy loft.

Next door, the 3,500 square-foot, fully restored McPherson Building features a 60-person classroom/lunchroom, restrooms, a faculty office and a 2,000 square foot boatbuilding and cabinetry shop. Overhead skylights and south-facing windows flood the shop with natural light.

The school's upper campus includes a 3,500 square-foot steel framed "Rubb" Shelter where the school's large craft boats are built. The Community Boatbuilding program, where high school students learn boat building during the week, and community volunteers build boats on weekends, is also located in a 1600 square-foot shelter. The upper campus also includes a 800 square-foot welding shop, that was constructed in 2009. Student parking is also located on the upper campus.

In the spring of 2011, the school's newest shop, the Hammond Building, opened. The Hammond Building is currently 6,300 square-feet, but is slated to have a classroom mezzine level built in the future. Once the mezzine level is constructed, the Hammond Shop will be close to 8,000 square-feet.

The Port Hadlock Heritage Campus lies below a wooded bluff, above which is located the small commercial center of Port Hadlock. Here, students can purchase groceries, tools and supplies from local stores. There are a number of simple cafes and coffee shops within walking distance of the campus. Jefferson County Transit buses depart from the town center with routes to Port Townsend, other Olympic Peninsula towns, Seattle, and a variety of Puget Sound destinations. There is public transportation to and from the Seattle/Tacoma International Airport.



Hammond Boat Shop

Campus Life: The Northwest School of Wooden Boatbuilding

Master shipwright Bob Prothero had a vision to preserve the skills and knowledge he had acquired over a life time of building and repairing traditional wooden boats. He came to Port Townsend from Seattle and in 1981, he founded the Northwest School of Wooden Boatbuilding.

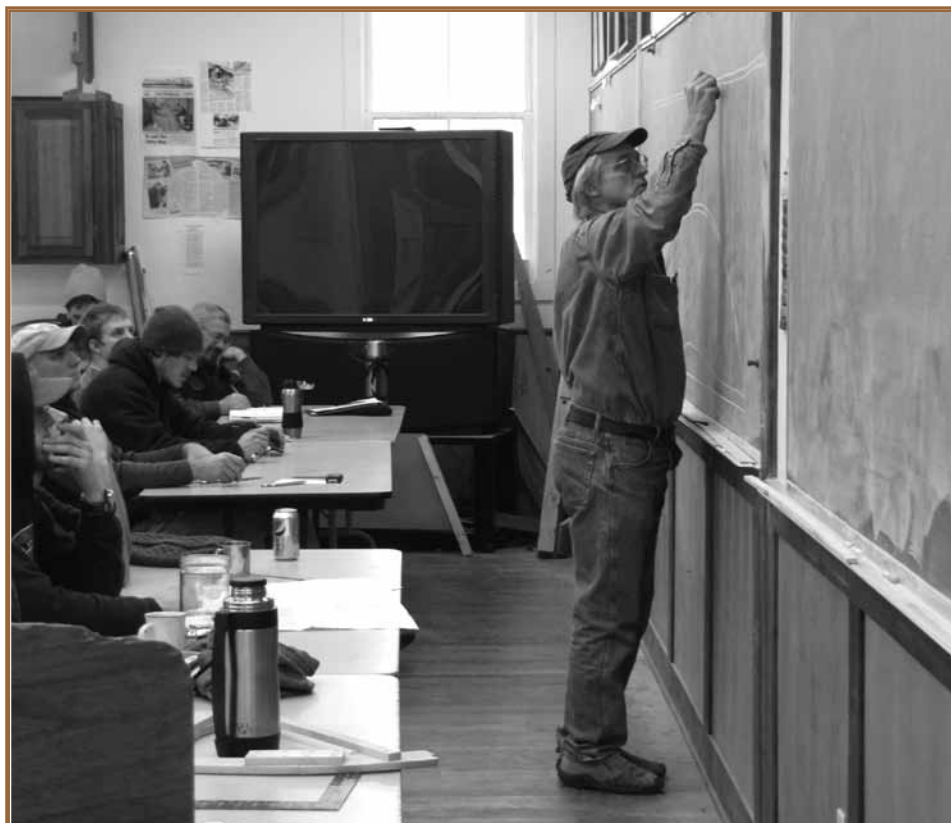
Today, an expanded curriculum rests in the hands of the school's skilled craftsmen who possess extensive experience in wooden boat construction. They have taught over a thousand students the fine art of wooden boat building and our students have built hundreds of wooden boats of every description.

It's Your Talent!

Your reputation as a woodworker will spring from the knowledge you acquire and the talent you develop. At the Northwest School of Wooden Boatbuilding, our educational emphasis is on developing your growth as a craftsman. We impart knowledge, skill, aesthetics and innovation in the art of woodcrafting. Our commitment is to ensure your time as a student is productively directed by providing you with excellent instructors, an invigorating learning environment and interesting, informative courses.

Work and Study at the School

You will typically spend up to two hours per day attending lectures for up to 60 students in the main classroom. The remainder of your day is in the boat shops doing hands-on learning: working on bench projects, drafting, lofting, and building



boats, of course! You will work in groups of between 8 to a maximum of 12 students per instructor. Instructors conduct demonstrations, educational meetings and field trips for students throughout the year.

During the day you will be given a short morning and afternoon break, in addition to your lunch break. After classes, everyone cleans up assigned areas around the campus. The library is open during school hours and at other scheduled times.

Besides your regular woodworking and boatbuilding study and practice, you will also participate in aspects of the work of a boat shop, which include sorting, selecting and milling

lumber, blocking up and moving boats, sanding, painting and varnishing, and adjusting and servicing tools.

You will find the environment here rich in learning experiences and you will have the opportunity to help the instructors shape your individual boatbuilding education.

“I enjoy getting up in the morning and coming to work. And I want my students to find that same pleasure in life.”



Jeff Hammond has headed up the school’s faculty of boatbuilders for over twenty-five years now and his interest in the craft of boat building is still as solid as the boats he builds.

The Faculty

We believe that our team of motivated and skilled instructors is our most important resource. All our instructors are skilled boatbuilders, each with years of experience in boatbuilding and fine woodworking. They will provide you with expert instruction in all realms of wooden boatbuilding.

The school’s faculty is maintained at a ratio of at least one instructor for every twelve students in the shop environment. Our teaching methodology is based on the master/apprentice role. As a student you will work directly with master builders while constructing beautiful boats that are built to last a lifetime.

Jeff Hammond, the school’s Master Instructor, has headed up the staff for over twenty-five years. Jeff learned wooden boatbuilding from the School’s founder, Bob Prothero. Please consult the Catalog Supplement for biographies on all current faculty and staff.

The Student Body

The only recognizable common thread within the goals expressed by the people who come here is an affinity for wood, boats and fine craftsmanship. You will find that your fellow students are of all ages and come from all walks of life. Students include recent high school graduates, middle-aged workers and professionals making a career change, and retirees learning new skills.

Most of our students have vocational goals, while some simply express personal or avocational reasons for attending.

Housing

Our staff is available to help you locate housing from our database of county residents who have made their homes, cottages, spare bedrooms and apartments available to our students. Housing is available in the Port Hadlock area within walking distance of the school, or in many locations in the surrounding area.

Communication

Personal mail may be sent to the school. It will be placed in your individual message box in the classroom. A phone is available for local and long distance calls. School staff does not accept personal phone calls for students unless there is an emergency. Faxes may be sent at no charge. Library computers are available for student internet use and wi-fi is available for students with laptops.

Placement and Advisory

The school is in contact with potential employers across the country and around the world and annually notifies selected employers to remind them of the school’s graduating classes. We post incoming notices of employment opportunities on the Student and Alumni Forum on our website. The school tracks graduates and keeps a record of their work and boatbuilding histories. The school cannot guarantee employment.

Recreation

The school encourages students to explore Port Townsend Bay in the evenings and on weekends.

Many hundreds of miles of protected cruising waters spread out from Port Townsend Bay. Sailing experience aboard vessels ranging in size from 20-foot sloops to 100-foot schooners is also available in Port Townsend. We encourage our students to volunteer aboard *Adventress*, the 133 foot Gaff Top-Sail Two Masted Schooner, and *Martha*, a 68 foot Two-Masted Schooner. For more information: www.soundexp.org and www.schoonermartha.org.

Skiers will enjoy traveling into the Olympic Mountains less than two hours away, or across the Sound to the Cascade Mountains, where cross-country and downhill slopes provide challenge for both expert and novice.

Bicycle riders can fan out from the Heritage Campus to explore the mostly rural roads and highways of Jefferson County, or catch the ferry to the San Juan Islands to island hop by boat and bike.



The Olympic Discovery Trail is an amazing hiking/biking/horse-back riding path that spans 100 miles of the Olympic Peninsula. www.olympicdiscoverytrail.com.

The Olympic National Park is one of the most beautiful natural areas on earth and has miles of mountain and beach hiking. www.nps.gov/oly/index.htm.

Port Townsend offers community events, live music and entertainment, arts, theatre, dance, sports, and more. For more information visit: www.ptguide.com.



PROGRAMS

Wooden Boatbuilding Programs Overview

ONE MUST LEARN BY DOING THE THING; FOR THOUGH YOU THINK YOU KNOW IT,

YOU HAVE NO CERTAINTY UNTIL YOU TRY. SOPHOCLES, 401 BC

Nine month diploma programs and twelve month degree programs are offered in the following areas of study:

- Traditional Small Craft Construction
- Traditional Large Craft Construction
- Contemporary Wooden Boatbuilding

A three month certificate program is offered in:

- Comprehensive Sailmaking and Rigging

Boatbuilding programs at the school include nine-month diploma programs and twelve-month Associate Degree of Occupational Studies (AOS) programs. We also offer a three month certificate in Comprehensive Sailmaking and Rigging. These programs are approved through the accrediting commission ACCSC (www.accsc.org). All boatbuilding programs begin in October of every year. The Sailmaking and Rigging course begins in January.

Students of all boatbuilding programs begin the Fall quarter with the Basic Skills for Boatbuilding course, a prerequisite to the boat building programs. During this course, you and your classmates will learn tool basics and safety, and you will build your own woodworking tools, beginning with a wooden mallet and finishing up with your own tool box and block plane.

Each student will need to come to school with the required tools or you may choose to order your tools through the school. The tool list is located in the Catalog Supplement.

Once you have learned the woodworking basics, you will head over to the classroom for two weeks of drafting, followed by the construction of a half-hull model of the boat you drafted.



Next up is lofting, which is the drawing out of a boat in three dimensions on the floor. Make sure to bring your knee pads!

Your first quarter at the boat school will end in the construction of your first boat, an 8-10 foot flat bottomed dory. You will build the boat as a team with your fellow classmates.

Once you have successfully completed the Basic Skills for Boatbuilding quarter, you will have the skills necessary to begin one of the boatbuilding programs. These programs begin in the Winter Quarter each year.

Wooden Boatbuilding Programs Overview

If your interest lies in building traditional boats under 25 feet in length, or specifically learning the lapstrake style of planking, then the Small Craft Program would best suit your needs. During this program you and your classmates will build between 2-4 boats, with at least one being lapstrake planked. Read more about the Traditional Small Craft courses on pages 16-17.

If you are interested in larger boats, up to 36 feet in length with cabins to build and systems to work around, then the Traditional Large Craft Program would be your best choice. During this program, you and your classmates will work on 1-2 boats. More information about the Traditional Large class courses is on pages 18-19.

The Contemporary Boatbuilding course is for those students with interests in modern construction techniques, such as cold-molding, strip planking, and working with fiberglass and epoxy.

These boats can be lighter, less expensive to build, and can be constructed in less time than traditional boats. More information on the Contemporary Wooden Boatbuilding course is on page 20.

9 month diploma students will graduate at the end of the Spring quarter.

Students enrolled in a degree earning program will stay on and complete a Summer quarter of either Repair and Restoration or Yacht Interiors. See pages 21 and 22 for detailed information on what you'll learn in these courses.

As you read through this catalog, think about which aspects of boatbuilding interests you the most, as this will help you decide in which program to enroll. If any questions arise, please contact the school at: Enrollment@nwboatschool.org or 360-385-4948, ext 304.

“I want to teach my students some of the valuable things that I’ve learned that I wish I had known when I was starting out”



Chief Instructor Tim Lee graduated from the Boat School in 1990 and went on to work in the boat building and repair trades in boat-yards along the West Coast.



Program Outlines

Traditional Large Craft Programs



1) 9-month Diploma; 1200 clock hour, 64.5 quarter-credits

- 100 Basic Skills for Boatbuilders.....21.5 credits
- 140 Large Vessel Construction Part I.....21.5 credits
- 240 Large Vessel Construction Part II.....21.5 credits

2) 12- month AOS Degree ; 1600 clock hours; 91 quarter-credits;**

- General or applied general education..... 5 transfer credits required**

And, one of the following:

- 270 Repair and Restoration.....21.5 credits
- 280 Yacht Interiors.....21.5 credits

The 9-month Traditional Large Craft diploma program will prepare you for employment in the field of wooden boatbuilding with an emphasis on large vessel construction. The knowledge and skill sets you'll acquire in this program will enable you to join teams of boatwrights at an entry level, building vessels such as offshore cruisers, motor yachts, workboats and replica craft of many types. Completion of the 12-month AOS degree program in Traditional Large Craft will prepare you for intermediate to advanced level employment opportunities. Those who enter the workforce specializing in interior joinery will find work in yacht manufacturing companies that have

cabinet divisions and in related woodworking trades, such as furniture making and architectural woodworking. Graduates specializing in Repair and Restoration will find intermediate to advanced employment in traditional boatshops.

Contemporary Wooden Boatbuilding Programs

1) 9-month Diploma; 1200 clock hours; 64.5 quarter-credits

- 100 Series Basic Skills for Boatbuilders.....21.5 credits
- 160 Contemporary Boatbuilding, Part I.....21.5 credits
- 260 Contemporary Boatbuilding, Part II.....21.5 credits

2) 12-month AOS Degree; 1600 clock hours; 91 quarter-credits**

- General or applied general education.....5 transfer credits**

And, one of the following:

- 270 Repair and Restoration.....21.5 credits
- 280 Yacht Interiors.....21.5 credits

The technology of modern wooden boat construction is employed by many yacht manufacturers and wooden boatbuilders who are melding the aesthetics of wood with the advantages of high-performance adhesives and sheathing materials. The 9-month Contemporary Wooden Boatbuilding Diploma program will prepare you for entry level employment in boatshops and vessel manufacturing utilizing laminating, strip-planking, cold-molding and other composite boatbuilding techniques. Completion of the 12-month AOS degree program in Contemporary Wooden Boatbuilding will prepare you for intermediate to advanced level employment. The addition of the Yacht Interiors course will provide you with skills that are in high demand throughout the boatbuilding industry.





Traditional Small Craft Programs

1) 9-month Diploma; 1,200 clock hours; 64.5 quarter-credits

- 100 Basic Skills for Boatbuilders.....21.5 credits
- 150 Small Craft Construction Part I.....21.5 credits
- 250 Small Craft Construction Part II.....21.5 credits

2) 12-month AOS Degree ; 1600 clock hours; 91 quarter-credits**

- General or applied general education..... 5 transfer credits**

And, one of the following:

- 270 Repair and Restoration..... 21.5 credits
- 280 Yacht Interiors..... 21.5 credits

Graduates of the Small Craft Diploma program find entry level employment in many of the same industries mentioned previously and are also employed by maritime museums, historical societies, schools, and non-profit organizations that build, maintain and operate traditional small craft. Completion of the 12-month AOS

degree in Traditional Small Craft Construction by adding Repair and Restoration or Yacht Interiors will prepare you for intermediate to advanced level employment. Repair and restoration skills are sought after by boatyards and interior joinery skills apply to vessels of any size or hull material.

Comprehensive Sailmaking & Rigging Program

1) 3-month Certificate; 400 clock hours; 21.5 quarter-credits

- 170 Comprehensive Sailmaking & Rigging.....21.5 credits

This course is for students of all ages and backgrounds, aspiring or seasoned sailors and sailmakers, or even enthusiasts with an eye for the craft. It is a great opportunity for the cruising yachtsman to understand his main power source and how to survive at sea, for individuals interested in gaining employment in the sailmaking or rigging fields, and for employees of cruising or Tall Ship organizations.

Students will participate in the entire sailmaking and rigging process, from measuring, lofting and machine work-to fitting the sails on the educational vessels. Students will also be exposed to spar, block, and hardware construction, canvas making and repair work.

“The student of traditional boatbuilding must strive for both speed and perfection. I want my students to gain the confidence needed to succeed.”



Master boatbuilder Ray Speck is renowned throughout the wooden boat universe as a leading expert in traditional small craft, although his expertise encompasses craft of every size and all descriptions.

Associate Degree of Occupational Studies (AOS)

Associate Degree Program General Requirements

Applicants admitted to any the school's diploma or associate degree programs must have earned a high school diploma or recognized equivalency certificate prior to starting class.

Students awarded an associate degree of occupational studies must successfully complete 91 quarter-credits of which a minimum of 67.5 must be in the core occupational subjects and a minimum of 13.5 quarter credit hours must be in general education or applied general education courses.

The boat school's core occupational courses, such as woodworking, boatbuilding, repair and restoration, yacht interiors, etc. are listed on page 13 and described on pages 14 through 22.

Applied general education is defined as courses directly applicable to a specific occupational cluster in related natural and physical sciences; social and behavioral sciences; technology; and humanities and fine arts. The school's applied general education courses, drafting and lofting, are described on page 15.

General education is defined as courses which are designed to develop essential basic academic skills. General education courses are not offered at the school. A minimum of 5 quarter credits must be transferred from another approved institution.

Credit Transfers

Students wishing to acquire the AOS degree must transfer their general education quarter-credits from other approved post-secondary institutions. Students without the required general education credits may elect to take evening courses at Peninsula College in Port Townsend or the Washington State University Learning Center in Port Hadlock.

Additional Courses and Upgrades

Graduates of any of the school's programs may upgrade their award at a later date by taking additional courses. For example, graduates of one of the nine month diploma programs can earn an AOS degree by taking either the Repair and Restoration course 270 or the Yacht Interiors course 280.

Students wishing to complete two of the school's programs may do so, however the classes run concurrently and must be taken in subsequent years. For example, a student may enroll in the Traditional Small Craft degree program the first year. If the student wanted to also complete the Contemporary Wooden Boatbuilding program, they could do so the following year by skipping the Fall quarter Basic Skills for Boatbuilding course and starting in the Winter quarter with the Contemporary Wooden Boatbuilding Part 1 course.

Please refer to page 13 of the catalog and to the catalog supplement for an outline of our programs and a list of current courses, as well as the school's website.



Ariel Photo of the Boat School campus and waterfront.

COURSE DESCRIPTIONS

List of Courses

List of Core Subject Courses

The following courses are included in the boat school's degree and diploma programs.

Fall Quarter Courses: Basic Skills for Boatbuilders (All Programs)

- 110 Classic Woodworking; 130 clock hours; 6.25 quarter-credits; Pg. 14
- 120 Drafting; 56 clock hours; 3 quarter-credits; Pg. 15
- 125 Lofting; 84 clock hours; 6 quarter-credits; Pg. 15
- 130 Skiff Construction; 130 clock hours; 6.25 quarter-credits; Pg. 15

Winter Quarter Courses

- 140 Large Craft Const. Part I; 400 clock hours; 21.5 quarter-credits; Pg. 18
- 150 Small Craft Const. Part I; 400 clock hours; 21.5 quarter-credits; Pg. 16
- 160 Contemporary Wooden, Part I, 400 clock hours; 21.5 quarter-credits; Pg. 20
- 170 Comp. Sailmaking & Rigging, 400 clock hours; 21.5 quarter-credits; Pg. 23

Spring Quarter Courses

- 240 Large Craft Const. Part II; 400 clock hours; 21.5 quarter-credits; Pg. 18
- 250 Small Craft Const. Part II; 400 clock hours; 21.5 quarter-credits; Pg. 17
- 260 Contemporary Wooden, Part II; 400 clock hours; 21.5 quarter-credits; Pg. 20

Summer Quarter Courses (AOS Degree Programs Only)

- 270 Repair and Restoration; 400 clock hours; 21.5 quarter-credits; Pg. 22
- 280 Yacht Interiors; 400 clock hours; 21.5 Quarter-credits; Pg. 21

Prerequisites

Specific prerequisites for individual courses are listed with that course's description on the following pages. Successful completion of a prerequisite course is required before a student can move ahead.

Clock Hours and Credits

A clock hour is defined as 50 minutes of instruction in a one-hour period. 20 clock hours of shop-based instruction equals one quarter-credit. 10 clock hours of classroom-based instruction equals one quarter-credit.



Course Descriptions: Basic Skills for Boatbuilders

THE BEGINNER WILL BE HELPED A GREAT DEAL IN BUILDING HIS FIRST BOAT IF HE HAS IN MIND AN OUTLINE OF THE VARIOUS OPERATIONS NECESSARY.

HOWARD CHAPELLE BOATBUILDING

Classic Woodworking 110

130 Clock Hours; 6.25 quarter-credits; three and one-half weeks

Educational Goal: This course will teach you how to care for and use hand and power tools, provide you with knowledge of important woodworking practices and develop your skills in executing typical joinery found in wooden boatbuilding.

Before you are able to successfully build a traditional wooden boat, you will need to develop your woodworking skills. In wooden boatbuilding, very little of the work is square. Wood is beveled, twisted and joined at odd angles. This makes it imperative that a boatbuilder be highly skilled in the use of hand tools. This section lays

the foundation for your skills through a series of bench projects, each with an increasing level of challenge.

You will learn how to layout and measure accurately, how to use handsaws and chisels to cut complex joints and spokeshaves and draw-knives to shape a variety of curved sections. You'll select,



sharpen and care for these tools, which were developed and used by generations of woodworkers.

Basic joinery exercises will develop your skill with hand tools as you progress to complex shapes and joinery typical of wooden boat construction. You will build several tools to become a part of your kit, such as a cross-wedged mallet, a wooden plane and bevel and spar gauges.

Stationary machinery and portable power tools are integral parts of modern woodworking. You will learn to safely use and care for band saws, table saws, planers, jointers, drill presses, routers, jig saws and other tools typical of those you will find in most boat yards and cabinetry shops.

Your classic woodworking course culminates with the construction of a dovetailed toolbox that will draw on all of your new talents. It requires careful planning and layout, accurate machine use and skilled handwork.



Course Descriptions: Basic Skills for Boatbuilders

Drafting 120; 56 clock hours; 3 credits; one and one half weeks

Educational Goal: *The drafting section will teach you how to express the shape of vessels on paper using line drawings and will help you visualize the three-dimensional shape of boats described by these drawings.*

Using a numerical table of offsets generated to record the coordinates of key points of a vessel's hull form, you will draft a set of lines that include three views, the body plan, profile and half-breadth. You will learn how to measure and scale and how to manipulate splines, ships curves and straight edges to carefully draw the intersecting views. You'll then use your half-breadth drawing as the pattern to create the "lifts" of a traditional half-model. Back at your bench you'll produce your half-model using chisels, gouges and spokeshaves. This important project helps you visualize the three-dimensional shape of a vessel while working with the two-dimensional line drawings that are in essence the boatwright's blueprints.



Lofting 125; 84 clock hours; 6 quarter-credits; two and one half weeks

Educational Goal: *The lofting course will teach you how to lay down a full-scale drawing of the ships lines from which to lift patterns for transfer to the building stock.*

This course brings together an appreciation of the lines of a hull with an understanding of its structural composition. The precise application of sound lofting principles is an essential skill. It is here that the real construction of a boat begins. The details of parts and pieces of the hull can be defined to very close tolerances, then lifted and transferred to the lumber stock with complete assurance that the pieces will fit into the overall structure without time- and stock-consuming trial and error. Lofting and creating patterns also makes possible the up-front construction of all the major components of the hull, making for quick, accurate and efficient assembly of the vessel.



Skiff Construction 130; 130 clock hours; 6.25 quarter-credits; three and one half weeks

Educational Goal: *This course will introduce you to basic wooden boatbuilding by integrating the skills and joinery techniques you practiced in the Classic Woodworking course into basic flat-bottom boat construction.*

The flat-bottom skiff has been one of the time-honored workhorses of waterfronts around the world. You will work with your bench-project team to build a small skiff that will put all of your new woodworking skills directly to work. Half-laps, rolling bevels and jointed edges are featured and you will use your drawknife, spokeshave and planes to shape gunwales, transom and oars. You will be introduced to the powerful techniques of spiling, which you will continue to use and refine throughout your boatbuilding education.



Course Descriptions: Small Craft Construction

MY CONTENTION IS THAT FOR MANY SMALL BOATS IT IS SIMPLIER, EASIER, QUICKER, AND LESS EXPENSIVE TO PLANK CLINKER RATHER THAN CARVEL, ONCE THE METHOD

IS CORRECTLY UNDERSTOOD AND FOLLOWED. JOHN GARDNER, 1977

Small Craft Construction Part I-150 and Part II-250

400 clock hours, 21.5 quarter-credits each quarter for a total of 800 clock hours and 43 quarter credits; six months

Prerequisite: 100 Series Basic Skills for Boatbuilders

Educational Goal: *This course will concentrate on teaching the construction techniques typical of small boats of from approximately 10 to 25 feet. In addition to carvel planked small craft, you will also learn the lapstrake or clinker-style planking method. Project boats might include rowing skiffs, motor launches, daysailers and small working craft.*

For hundreds of years, small open boats were the beasts of burden on the waterfront. Rowed, sailed, and more recently powered, they may be found anywhere from the ocean to a local pond. Adapted to local conditions and aesthetic, their shapes are as diverse as their uses. This rich body of design is an excellent area of study for you to learn the various construction techniques and detailing utilized in wooden boat building.

The typical small craft student will see several boats from lofting to launch, this is one of the strengths of this program. Every boat is

different but the repetition of construction will help reinforce the learning process, expanding on your skills set and increased speed.

The first quarter begins on the loft floor, laying down the lines and completing the structural developments learned in the lofting course. Various pick up techniques will be utilized to transfer the developments from the loft floor to timber. You will learn the importance of selecting the appropriate lumber species for the backbone of the boat; and how to layout, cut and shape it. Learning how to treat and assemble components in ways that encourage longevity will also

be a part of the process. You will also make the molds and set up the building form. Additionally, you'll be taught how to fair the rabbet and "line off" the hull to determine the most economical and aesthetically pleasing way to shape the planks.

Students enrolled in Small Craft will construct boats utilizing both lapstrake and carvel planking. You will learn how to bevel the planks, cut the gains for lapstrake. For carvel planking, you will learn how to plane the caulking seams. Selecting wood species and milling it to make best use of the wood's grain in planks and frames will also be among your new skills.



Course Descriptions: Small Craft Construction

MAN ADJUSTS TO MOST ANYTHING. FEW NOW OWN REALLY LARGE YACHTS...INSTEAD, WE HAVE HORDES OF SMALL CRAFT THAT, THANKS TO THE AFFLUENT SOCIETY,

MOST ANYONE CAN OWN. PETE CULLER, 1974 NATIONAL FISHERMAN

Small craft part II is a natural progression in the boatbuilder's education from techniques and skills learned in the first quarter. This quarter will find you fitting out and finishing the boats you began in the first quarter and starting new ones.

Once the planking is complete you will learn how to caulk the seams and fair the hull. Fitting out small boats is a challenge for any wood worker. There are a myriad of details to work out and you'll find yourself spiling and fitting thwarts, thwart knees, stern sheets, breasthook, and quarter knees.

You will be introduced to a variety of small boat sail rigs. The spars and oars will need to be made. You will learn how to correctly size spars to be light aloft yet strong. You will lay out the spars and shape them with draw knife and planes. To complete the rig, you will learn how to splice a three strand rope and protect the oars with wear leather.

The sail boats will have dagger boards or centerboards and you will learn ways to construct a strong, water tight centerboard trunk. You will build rudders, tillers, and mount their hardware.

Finishing work is among the most important skills for the boat builder to master. Poor finish work can obscure fine craftsmanship. You will have instruction in applying traditional oil-based finishes,

Small Craft students taking the lines off of a 14' skiff.



such as oils, varnish and enamel paints, as well as handling new polyurethane paints.

The small craft class actively documents and replicates the water craft of the Pacific

coast. You will learn methods of documentation and how to "take the lines" from existing boats. These skills will enable you to participate in the preservation of maritime culture wherever you may live and to replicate any boat.



The replica 14' Davis skiff and the original pictured above.

Course Descriptions: Large Craft Construction

Large Vessel Construction Courses, Part I-140 and Part II-240;

400 clock hours, 21.5 quarter-credits each quarter for a total of 800 clock hours and 43 quarter credits; six months

Prerequisites: 100 series Basic Skills for Boatbuilders

Educational Goal: *This comprehensive course will train you to build a variety of traditionally constructed large vessels of the type that include fishing boats, tugs, cruising yachts and motorboats.*

Large craft is not a description of the size of the boats to be built, but of the structural elements utilized in the construction. The designs vary from year to year, ranging from sailboats and to power boats. For the purposes of this class, the boats can range from sixteen to forty feet, but on averaged are twenty to thirty feet. However, regardless of length, the boats will include many of the structural features common in large wooden vessels such as: ballast keels, decks, cabin trunks, curved transoms, standing rigging and inboard engines.

The size and more complicated construction of large boats often mean that the building process, will span more than one academic year.

Typically, the large craft student will participate in the construction of two to three boats. During the first quarter you will find your self completing the construction of one boat while lofting and making pieces for the next boat. There is often a small decked sail boat or launch under construction at the same time. While you may not see a boat from start to finish, you will participate in most phases of construction.

Right away you will put your new joinery skills to work completing house and deck joinery. You may find yourself installing an engine or boring for rudder shaft. You will learn how to properly locate and install hardware.

You will understand the importance of lofting and how complex pieces are developed from the floor, then built and assembled by different individuals. When the boat is set up on the building stocks, you will understand how your work fits together with that of your shop mates. You'll see the shape of the boat as the stem, backbone, molds, shelf, clamp and ribbands are assembled and readied for framing.

For vessels with bent frames, pockets are chiseled into the backbone to receive the ends of the frames, which you will then steam and bend.



H.C. Hanson Forest Service Boat

Course Descriptions: Large Craft Construction

I'M SURE THAT THE BOAT OF YOUR DREAMS IS THE BEST AND MOST BEAUTIFUL BOAT IN THE WORLD. IF YOU DON'T GO AHEAD AND BUILD IT, YOU WILL MISS ONE OF THE MOST EXCITING AND SATISFYING EXPERIENCES LEFT TO US TODAY. YOU'D BETTER GET GOING! BUD MCINTOSH [HOW TO BUILD A WOODEN BOAT](#)

Lining off and planking follows these processes. You will learn how to determine and plane the edge bevels to get tight uniform seams, which are important to a dry boat. Once tight uniform seams are achieved, you will learn how to caulk the seams with cotton and oakum. Once the hull is complete with planes and longboards, it will be shaped into a smooth fair surface.

You will have the opportunity to construct decks, including laid, sprung, canvas covered and epoxied plywood. The deck frame on vessels of this type are often complex structures which utilize blocking, lodging and hanging knees and tie rods.

The Large Craft program will include basic interior structures, such as bulk-heads, cabin soles and simple cabin furniture.

Finally, instruction in spar making, preparations for rigging, boring for shafts and building engine beds, constructing rudders, painting and varnishing will round out the course.



“Gemini” Photo courtesy of Elizabeth Becker

“My aim as an educator is to impart the traditions and skills I have been granted from those that came before me. There is nothing better than building beautiful boats with a positive and hardworking crew.”

Instructor Ben Kahn is known for his patience in the boat shop. He brings excitement and challenge to his students and easily spreads his joy of woodworking during his lessons.



Photo courtesy of Petra Lisiecki

Course Descriptions: Contemporary Wooden Boatbuilding

THE MODERN WOODEN BOATBUILDER NOW HAS AVAILABLE TO HIM A SET OF TECHNIQUES THAT ALLOWS HIM TO DO THINGS

WITH WOOD THAT WERE NEVER BEFORE POSSIBLE.” JOHN GUZZWELL, MODERN WOODEN YACHT CONSTRUCTION

Contemporary Wooden Boatbuilding, Part I , 160 & Part II, 260;

400 clock hours, 21.5 quarter-credits each quarter for a total of 800 clock hours and 43 quarter credits; six months

Prerequisites: 100 level Basic Skills for Boatbuilders

Educational Goals: *This course will teach you how to build wooden boats using strip plank, plywood, cold molding and laminating techniques applicable to both small and large vessels and other complex wooden structures.*

The qualities of wood as an engineering material when coupled with modern adhesives and coatings, have led to a variety of new and successful boatbuilding methods widely in use today. Both amateur and professional boat builders employ these modern methods to create boats ranging from simple kayaks to complex mega-yachts, designed in both traditional and ultra-modern styles.

In this course, you will be taught the diverse techniques commonly used, including strip-planking, plywood construction methods and cold-molding.

We will focus our attention on the construction techniques required to build the actual boat projects slated for the year. These projects will be selected, partly, to offer as many different building styles as possible and the remaining techniques will be learned using other instruction methods. The boat projects will vary from year to year, as we do not build “stock”.

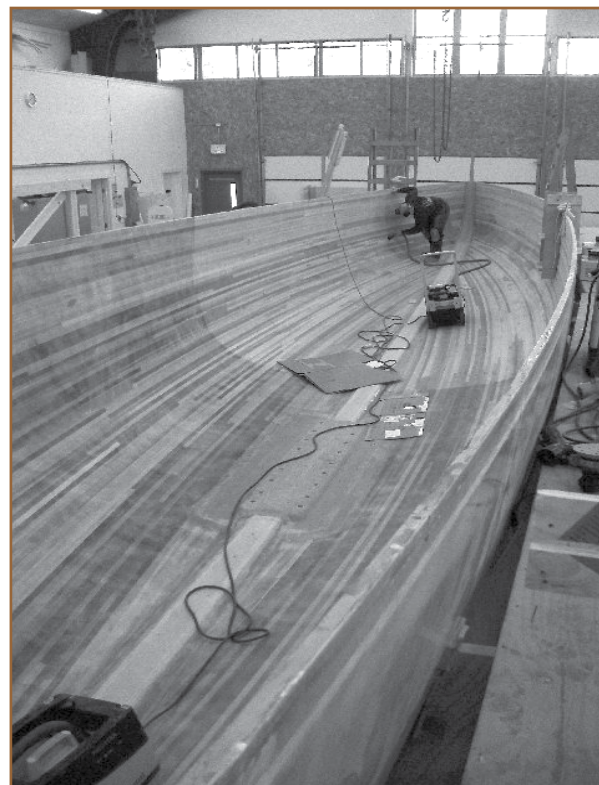
The curriculum will include a review of reading plans and lofting. Materials ideal for contemporary wooden boatbuilding may vary from those one would select for traditional hulls and you will learn how to match construction techniques, materials and adhesives.

The molds and set-up used for strip planking, plywood construction and cold molding all vary in significant details and you will learn how to choose and build appropriate molds. Backbones and frames become integral parts of the hull or disappear altogether. Instead, bulkheads, partitions and web-frames become more important.

You will learn how to make several common joints between hull members, bulkheads and deck structure that incorporate the strength and characteristics of the adhesives. Laminating techniques including vacuum bagging will be demonstrated and practiced.

This course will also include instruction in sheathing and encapsulating. You will learn how to select and use tools for sanding and fairing and how to safely work around and with potentially hazardous chemicals and compounds during application, curing and finishing.

The boat school’s philosophy that craftsmanship is one of the most important values held by the successful boatbuilder is as apparent in this course as it is in all other instruction given by the school. Style, precision, detail and neatness are all important qualities for modern boatbuilders.



“Sliver” photo courtesy of Pete Leenhouts

“I stand in the shop and I am just amazed at the level of detail and thought that is going into the boat. You have people contributing ideas that never occurred to me. I like that. You have truly tapped into something beyond standard yacht building. Sometimes the stars are all in line and I think this is one of those moments.”

-Bob Perry commenting on the Contemporary Program’s construction of his designed composite double ended day sailor, “Sliver”.

Course Descriptions: Yacht Interiors

WHAT A JOY TO SIT IN A SWEET SMELLING AND SPOTLESS CABIN UNDER THE SOFT GLOW OF A KEROSENE LAMP!

L. FRANCIS HERRESHOFF, 1940

“Enthusiasm and a good work ethic make all the difference.”



Since graduating from the NWSWB, Bruce Blatchley has worked in a variety of boatshops in the northwest and has built a variety of traditional as well as contemporary craft for himself.

“I really appreciate the vitality and the breadth of experience our staff and students bring to the school as they make the situation rewarding for everyone.”

Yacht Interiors Course 280 400 clock hours; 21.5 quarter-credits; three months

Prerequisites: 100 level Basic Skills for Boatbuilders, and completion of either Small Craft Construction 150 and 250, Large Craft Construction 140 and 240 or Contemporary Wooden Boatbuilding 160 and 260.

Educational Goal: *This advanced course will teach you how to design and execute precise, beautiful joinery specific to yacht and vessel interiors utilizing a variety of classic and modern techniques.*

Fine woodworkers are in demand by high-end yacht manufacturers, many of whom employ large numbers of skilled people in their cabinetry shops. In this course you will focus your woodworking skills on yacht interiors. You will begin by learning to read construction plans and blueprints for wooden yacht fixtures, furniture and cabinetry. Lofting skills will be reviewed and upgraded, providing you with a powerful tool to solve

the common puzzle of how to fit desired features into complex shapes. Likewise, the technique of spiling to fit new items into existing spaces will be fully explored.

You will learn to layout and cut a wide variety of joints in both wood and composite materials specific to the interiors of modern pleasure vessels. You will learn how to design and build jigs, molds, fixtures and tools you can use for both production and custom work.

This course will include instruction in techniques for laminating, vacuum bagging and veneering. Working with components from plans for custom yacht interiors, you will practice building parts that may include bulkheads, paneling, settees, berths, cabinets, stairs, counters, doors and drawers and trim moldings. Finishes and coatings typical of current industry standards will also be covered.



Course Descriptions: Wooden Boat Repair and Restoration

“BREAKING HER UP?” AN ONLOOKER IN AN APPLE ORCHARD IN FAIRHAVEN MASSACUHUSETTS, AS JOSHUA SLOCUM SET ABOUT REBUILDING THE *SPRAY*. 1892

Wooden Boat Repair and Restoration 270

400 clock hours; 21.5 quarter-credits; three months

Prerequisites: 100 level Basic Skills for Boatbuilders, and completion of either Small Craft Construction 150 and 250, Large Craft Construction 140 and 240 or Contemporary Wooden Boatbuilding 160 and 260.

Educational Goal: *This advanced course will teach you how to assess and solve hands-on the myriad of specialized wood-working problems inherent in the repair and restoration of traditional watercraft.*

Among the most highly marketable skills of the wooden boatbuilder, repair and restoration techniques rank near the top. Many shops report that repair and restoration of wooden vessels comprise the bulk of their business. In this upper level advanced-skills course, you will take part in the hands-on repair and restoration of project craft selected for the diverse reconstruction lessons they offer.

You will begin with an introduction to the art and science of wooden boat survey. You'll learn about the role of the professional surveyor in evaluating restoration projects. In this section, you'll study the cause and effect of material degradation and how to search for evidence of such deterioration. You'll learn how to get at important structural components of a vessel, such as plank fastenings, keel bolts, hidden frames etc. in order to assess their condition.

After conducting an assessment of a selected repair project, you'll write up a project repair and restoration plan. Later, you will return to this plan to complete a cost estimation typical of those prepared in boat yards for their customers.

Lectures will cover a variety of commonly needed repairs and teach you how to approach them in a methodical manner. Repair work is often more complex than new



construction. The boatwright must replace or repair parts of the boat, such as a stem or transom, that were built into the craft very early in the construction process. Other repairs are complicated because access is hindered by the interior furniture of the boat or by the vessel's wiring, plumbing and mechanical systems.

You will learn how to preserve the shape of the boat and protect existing structure that is in good shape, while removing and replacing deteriorated structural members. Much of the art of good repair work lies in knowing how much to take out and in what order.

Repair work commonly requires different methods of spiling and pattern making than used in new construction. Planking and decking has to fit within defined openings. New frames have to be integrated into an existing hull shape.

Keel bolts and other structural fasteners often must be extracted and replaced and you will learn about the special tools and methods that have evolved for these purposes. Finally, varnished and painted surfaces, damaged by moving joints and subsequent water damage, need to be restored and you will learn how to strip, stain, seal and finish interior and exterior surfaces.

Course Descriptions: Comprehensive Sailmaking & Rigging

“TO ALL THOSE IN WHOSE HEARTS, MINDS, AND LABORS THE TIME-HONORED ARTS AND TRADITIONS OF SAILMAKING, RIGGING AND SAILING ENDURE.”

EMILIANO MARINO, THE SAILMAKER'S APPRENTICE

Comprehensive Sailmaking & Rigging, 170;
400 clock hours; 21.5 quarter-credits; three months
Prerequisites: None

Educational Goals: *To teach sailmaking and rigging while providing sails for educational vessels. This is a course for students of all ages and backgrounds, where students will come away with a full understanding of sailmaking and rigging.*

The Comprehensive Sailmaking and Rigging program is an introductory course which teaches how to design and fit sails to their boats and introduces students to sail repair, rigging, canvas work and spar, block, and deck hardware construction. This class was designed so that it will fit the needs of those wanting to enter into the professional field of sailmaking and rigging, and for those individuals that would like to become competent in working on their own boats.

During the three month program, students will have many classrooms. First, students will learn the art and science of designing and building sails in the 1,287 square foot sail loft. Students will learn to use the many types of sewing machines and hand tools needed to build the sails and canvas coverings.,

Towards the end of the quarter, students will rig and fit sails, spars, blocks and deck hardware on the boats. Professionals in the industry will visit the classroom as guest lectures through out the quarter. Additionally, the classroom will move outside with field trips to local boat yards, sail lofts, and rigging shops.

Some of the past sailmaking projects have included building sails for non-profit and/or educational organizations in addition to privately owned vessels. The class offers students the opportunity to build and repair new sails, giving the skills necessary to enter the trade or build and repair your own sails.

Successful graduates will be awarded a certificate of completion.



Course Outline

- Knobs & splices-rope
- Splices-wire
- Sailmaking introduction
- Tools and how to use them properly
- Materials: cloth, rope, hardware, thread
- Sail/Rig types: square rig, schooner, ketch, etc.
- Sail types: Scotch, vertical, miter, etc.
- Sail theory
- History of sail development
- Intro to design
- Measuring
- Intro to lofting and layout
- Sailmaking process-measure, loft, machine work,
- Finishing
- Handwork-eyelets, whipping, sizing,
- Corners & fittings
- Rattailing
- Roping
- Sail care-stowing, maintenance, inspection
- Sail repair
- Canvas work-ditty bag, sail bag, sea bag, sail covers, cushions, and covers.
- Cringles
- Sailing
- Repair kits
- Ordering supplies
- Make your own sails (how to start)
- Spar, block, and deck hardware construction



POLICIES

Admission Procedures

WHEN THOU ART AT ROME, DO AS THEY DO AT ROME. CERVANTES, 1605

Eligibility Requirements:

- 1) A high school diploma or it's equivalency.
- 2) The physical and health capacity to undertake the day-to-day work.
- 3) An ability to understand written and oral instruction given in English.

Entry-level enrollment in most programs at the Northwest School of Wooden Boatbuilding does not require prior woodworking or boatbuilding experience. However, enrollment in some courses may be contingent on prerequisite course completion or equivalent skill. Prerequisites for individual courses are listed with the course descriptions. The school will evaluate prior education or experience acquired at other schools. Credits will be awarded based on the specific correlation of the experience or training to the school's curriculum. Detailed descriptions of the physical demands of our programs are available to applicants who may have health or physical conditions they are concerned may compromise their ability to benefit from the training.

Foreign Students:

The school is approved by the U.S. Government to enroll non-immigrant international students. The process of acquiring the needed student visa can be time consuming and foreign students are encouraged to apply several months in advance of their program start date. Assistance is available from the Student Services Administrator by calling the school at 360-385-4948, ext. 304 or by emailing enrollment@nwboatschool.org. Forms are available for download from the *International Student page* of our website.

Application:

Application for admission requires completion of the school's Admissions Forms and Enrollment Agreement, a copy of the student's high school or college diploma or transcript, and

payment of \$300 by check, money order, Master Card or Visa. \$100 of this payment is a registration fee and \$200 is a refundable tuition deposit. Please see the refund policy concerning payments to the school. Applicants should forward these materials to: Student Services Administrator, 42 N. Water Street, Port Hadlock, WA 98339. The school cannot process your enrollment unless all requested documents are submitted with your application.

Financial Aid: Questions regarding financial aid should be directed to the Student Services Administrator at 360-385-4948 ext. 304 or via email to financialaid@nwboatschool.org.

The School is approved to participate in the Federal Financial Aid programs, including the Federal Pell Grant program, the William D. Ford Direct Student Loan/Stafford Loan program, and the Plus Loan Program. For current information about applying for financial aid, please see page 4 of the Catalog Supplement. Our School code is 041550.

Veterans: Tuition assistance is available to US Veterans with education benefits. For information about what type of benefits are available to you, how to apply for benefits, and to view payment rates, go to www.gibill.va.gov, or call 1-888-442-4551.

Alaskans: Alaskan residents applying for any of the Alaska Advantage Education Program's loans and/or grants, should apply online at www.akadvantage.alaska.gov, or call 1-800-441-2962.

Canadians: Canadian residents should visit www.canlearn.ca to find information on the Canadian Student Loan Programs.

Scholarships: See page 5 of the Catalog Supplement for information on applying for scholarships.

Cancellation, Termination and Refund Policies

Cancellation by the School

The NWSWB may cancel the enrollment of any student for any of the following reasons:

- 1) The student does not meet the published Eligibility Requirements.
- 2) The student fails to maintain satisfactory progress as detailed in the Satisfactory Progress Policy.
- 3) Infraction of the Standards of Conduct.

Cancellation notice will be given in writing, stating the reasons for the action.

Readmission

Students dismissed for any of these reasons may apply in writing to the Director for readmission within five days of notice of dismissal stating the reasons why such readmission should be considered. The Director, upon reviewing the circumstances of the case, will determine if conformance with school standards can be met and may reinstate the student on probation.

Discontinuance of Instruction by the School

If the school discontinues instruction in any program after students enter training, including circumstances where the school changes its location, students will be notified in writing of such events and are entitled to a pro-rata refund of all tuition and fees paid unless comparable training is arranged for by the school and agreed upon, in writing, by the student. A written request for such a refund must be made within 90 days from the date the program was discontinued or relocated and the refund will be paid within 30 days after receipt of such a request.

Refund Table

If the student completes this amount of training:	The school will keep this percentage of the tuition:
One week or up to 10%, whichever is less;	10% retained.
More than one week or 10% whichever is less but less than 25%;	25% retained
25% through 50%;	50% retained
More than 50%;	100% retained

Refund Policy

The school will refund all money paid if the applicant is not accepted. This includes instances where a starting class may be canceled by the school.

The school will refund all money paid if the applicant cancels within five business days (excluding Sundays and holidays) after the day the contract is signed or an initial payment is made, as long as the applicant has not begun training.

The school will retain an established registration fee equal to ten percent of the total tuition cost, or one hundred dollars, whichever is less, if the applicant cancels after the fifth business day after signing the contract or making an initial payment. The “registration fee” is the fee charged by the school to process student applications.

If training is terminated after the student enters classes, the school will retain the registration fee, plus a percentage of the total tuition as described in the above table.

Please refer to the Student Handbook for the refund policy as it applies to students receiving Federal Student Aid.

Refund Due Date

Any refunds due will be paid within 30 days from the last day of attendance or within 30 days from the date of receipt of written notification of cancellation.

Withdrawal by Student

The student may withdraw for any reason. When calculating refunds, the student’s official date of withdrawal is the last date of recorded attendance, when:

- 1) The school receives notice of the student’s intention to discontinue the training program; or,
- 2) The student’s enrollment is terminated for a violation of a published school policy which provides for termination; or,
- 3) The student, without notice to the institution, fails to attend classes for five calendar days.



Training Standards & Satisfactory Progress Policies

Attendance and Punctuality Standards

Attendance records are kept daily and account for a portion of the student's grade. Students may be able to make up time during evening shop hours. The student's course instructor must approve make-up time if it is to count toward normal course work clock hours. There is no additional tuition charged for enrolled students who take advantage of scheduled after-hours shop time. Five consecutive unauthorized absences constitute grounds for probation. When a student, without notice to the institution, fails to attend classes for thirty calendar days, that student's enrollment will be considered terminated.

Late arrivals/early departures in class or to your workshop of more than 15 minutes at anytime throughout the day are recorded as tardiness. Three tardies are recorded as an absence. Ongoing tardiness may result in the student being placed on probation.

Additional Course Completion Time

If a student, in order to meet graduation requirements, elects to continue attendance at the school after the published date of graduation for that program, then the student shall, upon approval of the Chief Instructor, be enrolled on a space and course available basis and shall pay additional tuition for such instruction on a pro-rata basis.

Leave of Absence

Students must apply in writing to the Director for absences that exceed five working days. If circumstances require, a leave of absence may be granted for a maximum period of up to 30 calendar days. Days missed in excess of the attendance standard must be made up within one and one-half times the period of the program in which the student is enrolled, calculated from the start date of the program. Students taking a leave of absence must still meet all other training standards, including passing grades in all courses. This may necessitate hiring a tutor outside regular class time to catch up on missed material. If a student fails to return from a leave of absence and a period of 30 days passes from

the official date of last attendance, the student's enrollment may be cancelled.

Grading System

Students' work is evaluated through one-on-one review by instructors and through written knowledge and demonstrated skills assessments. Grades are assigned at the end of each course. Grades are awarded on the following scale:

- A: 4.0 Exceptional work.
- B: 3.0 Higher than expected standards.
- C: 2.0 Meets expected standards.
- D: 1.0 Lower than expected standards.
- F: 0.0 Fails to meet minimum standards.

Passing Grade

Students must maintain at least a passing grade average of 2.0 for each course throughout their program. Students not achieving the minimum standard for any course will be given written notice of probation and allowed a period of time deemed reasonable by the Chief Instructor to improve their grades. If a student fails to meet the minimum standards within this probationary time period, the student may be dismissed.

Incompletes

Students are given an incomplete grade if they fail to complete training for any reason. All incomplete grades will be shown as an "F" (fail) if:

- Training is not made up within one and one half times the normal program length, calculated from the start date; or,
- The student cancels enrollment; or,
- The school does not receive notification by class graduation date of the student's intention to continue training.

Probation:

Students who fail to meet the minimum published standards for attendance, grades or conduct may, upon written recommendation by the Chief Instructor,

be placed on probation. The Chief Instructor, in consultation with the Director and the student, will determine the length of the probationary period, which should reflect a reasonable period during which the deficiency can be corrected. The student will be advised at this time that continued unsatisfactory progress will result in cancellation of enrollment.

At the end of the probationary period, there will be a further review of the student's progress, after which the probationary status may be removed, extended, or, if it appears unlikely that further progress is possible, enrollment may be cancelled.

Adding or Repeating Courses

A student may choose to add or repeat courses by paying additional tuition for such courses. The option of repeating any specific course is limited by space and time availability.

Repeating Courses: A student who chooses to repeat a course will have the grades from the repeated course replace those of the previous in the calculation of the grade point average.

Graduation Standards

In order to receive a course certificate, program diploma or associate degree a student must:

- Earn the appropriate number of credits; and,
- Achieve a passing grade in all required courses; and,
- Meet attendance standards; and
- Pay debts owed to the school.

Credit Transfer Policy

The credits you earn at the Boat School may or may not transfer to another institution. You will need to have your transcript evaluated by the institution in which you are transferring to.

Disabilities

The school will make all attempts to accommodate students with physical and intellectual disabilities.

Smoking

The Clean Indoor Air Act (RCW 70.160) prohibits smoking in public places and workplaces to protect employees and the public from second-hand smoke. Smoking is prohibited in all interior areas of the school. Smoking outside the school is prohibited within 25 feet of entrances, exits, windows that open and ventilation intakes (the 25 Foot Rule) Smoking is prohibited near dust collection equipment, lumber storage and scrap piles or near propane installations or flammable substance storage (paint lockers, etc.) Cigarette butts must be disposed of properly, never in the bay or on the ground.

Alcohol and Drugs

The school is a drug and alcohol free zone and workplace. A copy of the "Northwest School of Wooden Boatbuilding Drug Prevention Program" is included in each student's introductory package along with

a statement that must be signed by each student. Deviations from this policy can have serious safety consequences and may result in dismissal.

Personal Projects

Personal projects are not allowed. Experience has shown that if students find some free after-hours time, it is better spent on course projects.

Safety Rules

The shop environment of the school contains potential dangers. This environment is only unsafe if those working within it fail to comply with approved operating procedures. Detailed safety briefings and safe equipment operation will be an integral part of your training at the Northwest School of Wooden Boatbuilding.

Pets

Pets are prohibited from the campus. Students with pets should plan to arrange for suitable daytime accommodation for their animals at home.

Failure to Comply

Students failing to comply with these or any other regulations may be dismissed. A student is judged to be out of compliance if they repeatedly disregard written or oral safety or conduct instructions from school staff members. Dismissal for failure to comply will result in the school's published tuition refund schedule being applied. The date of the infraction is the effective date of withdrawal.

Notice: The Washington State Workforce Training and Education Coordinating Board (WTECB) as well as the Accrediting Commission of Career Schools and Colleges (ACCSC) mandate publication of the following statements:

1) This school is licensed under the Private Vocational Schools Act, Chapter 28C.10RCW; inquiries or complaints regarding this or any other private vocational school may be made to:
Work Force Training and Education Coordinating Board
128-10 Avenue SW, 6th Floor
P.O. Box 43105
Olympia, WA, 98504-3105
360-753-5673

2) The school is accredited by the Accrediting Commission of Career Schools and Colleges (ACCSC) The ACCSC is listed by the U.S. Department of Education as a nationally recognized accrediting agency.

3) The school encourages all potential students to carefully compare its program to others that may be available before making a decision to attend. Information about comparable program fees, tuition and program length is available from the ACCSC.

4) The school's Student Complaint Procedures are published in the Student Handbook, which is issued to all enrolled students. Students may obtain a copy of the ACCSC complaint form from the Student Services Administrator.

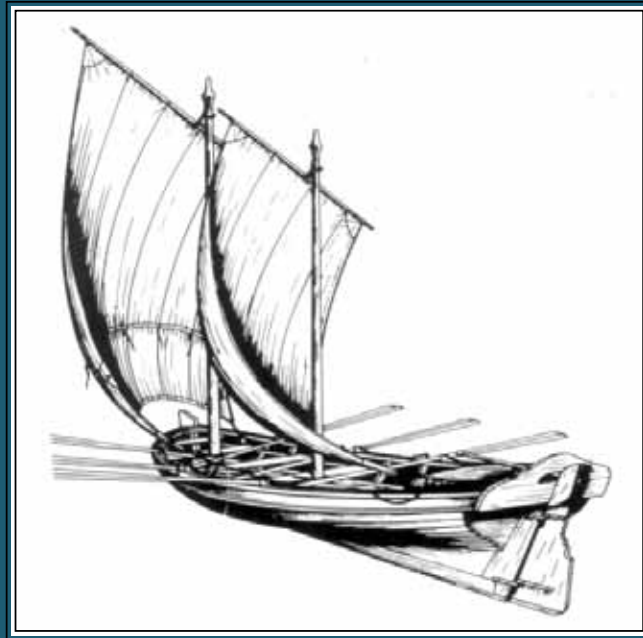
The following statement is required by the ACCSC:

STUDENT COMPLAINT/GRIEVANCE PROCEDURE

Schools accredited by the Accrediting Commission of Career Schools and Colleges must have a procedure and operational plan for handling student complaints. If a student does not feel that the school has adequately addressed a complaint or concern, the student may consider contacting the Accrediting Commission. All complaints considered by the Commission must be in written form, with the permission from the complainant(s) for the commission to forward a copy of the complaint to the school for a response. The complainant(s) will be kept informed as to the status of the complaint as well as the final resolution by the Commission. Please direct all inquiries to: ACCSC, 2101 Wilson Boulevard, Suite 302, Arlington, VA 22201, www.accsc.org, (703)247-4212

Mission Statement:

“...to teach and preserve the skills and crafts associated with fine wooden boat-building and other traditional maritime arts with emphasis on the development of the individual as a craftsperson.”



“Now, the moral side of an industry, productive or unproductive, the redeeming and ideal aspect of this bread-winning, is the attainment and preservation of the highest possible skill on the part of the craftsmen. Such skill, the skill of technique, is more than honesty; it is something wider, embracing honesty and grace and rule in an elevated and clear sentiment, not altogether utilitarian, which may be called the honour of labour.”

Joseph Conrad