

BOAT MANUFACTURE AND SERVICE

*Effective Term – Fall 2007 [2007*03] – SBCC 07/20/07*

BMS 110	Intro to Marine Woodwork	1	4	3
Prerequisites:	None			
Corequisites:	None			

This course introduces woodworking techniques common to boat manufacturers and repair yards including setting up and adjustment of tools and equipment. Emphasis is placed on safety, understanding functions and limitations of equipment, project planning, and working accurately and efficiently with sharp tools. Upon completion, students should be able to fabricate basic marine wood components safely and efficiently.

*Effective Term – Fall 2007 [2007*03] – SBCC 07/20/07*

BMS 111	Marine Joinery	1	4	3
Prerequisites:	None			
Corequisites:	BMS 110			

This course builds on Marine Woodworking and introduces constructing advanced joinery projects utilizing modern boat shop tools and equipment. Emphasis is placed on designing and building very accurate production jigs and fixtures for increased efficiency and part consistency. Upon completion, students should be able to fabricate high quality cabinets and moldings typically found in yachts.

*Effective Term – Fall 2007 [2007*03] – SBCC 07/20/07*

BMS 112	Marine Blueprints/Lofting	2	4	4
Prerequisites:	None			
Corequisites:	BMS 111			

This course introduces boat plans and blueprints used in the construction or renovation of a boat. Emphasis is placed on the importance of understanding the Lines Plan which describes the shape of the hull. Upon completion, students should be able to prepare full size drawings (lofting) of a boat, plug, or boat component.

*Effective Term – Fall 2007 [2007*03] – SBCC 07/20/07*

BMS 113	Hull & Deck Construction	2	6	5
Prerequisites:	None			
Corequisites:	BMS 112			

This course provides hands-on instruction on how to build custom hulls and decks. Emphasis is placed on acquiring the skills necessary to build composite fiberglass hulls, plugs, molds, and cold molded wooden vessels. Upon completion, students should be able to construct a hull or deck to boat industry standards.

*Effective Term – Fall 2007 [2007*03] – SBCC 07/20/07*

BMS 114	Intro to Composites	1	4	3
Prerequisites:	None			
Corequisites:	None			

This course covers the fundamental techniques utilized in working with resins, fabrics, and adhesives, with special emphasis on composite material safety. Topics include component resin mixing and application of cores and fabrics, using product data sheets while emphasizing quality control of raw materials and finished product. Upon completion, students should be able to follow a lamination schedule, mix resins within strict parameters, and execute gel coat, solid, and cored panel repairs.

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BMS 115 Tooling/Mold Construction

2 6 5

Prerequisites: None

Corequisites: BMS 114

This course covers the composite tooling process, including new mold designs for closed molding and infusion manufacturing techniques. Emphasis is placed on modern mold designs and construction techniques. Upon completion, students should be able to design and build composite molds for the boat manufacturing industry.

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BMS 116 Composite Production

3 6 5

Prerequisites: None

Corequisites: BMS 115

This course introduces composite equipment and manufacturing techniques utilized in industry for mass producing composite parts from composite molds. Emphasis is placed on using production molds to produce fiberglass components. Upon completion, student should be able to build a quality composite part to design standards using hand lay, spray, or infusion techniques.

*Effective Term – Fall 2007 [2007*03] – SBCC 07/20/07*

BMS 117 Marine Spray Finishing

1 2 2

Prerequisites: None

Corequisites: None

This course covers the fundamental techniques used in the preparation and application of marine finishes, using modern coatings and spray equipment common to the marine manufacturing and service industry. Emphasis is placed on safety, product data sheets, mixing ratios, proper spray technique, troubleshooting finishes and equipment. Upon completion, students should be able to correctly operate tools to efficiently prepare surfaces, apply fairing compounds, primers and finish coats to industry standards.

See the SEL and SEM prefixes for generic Selected Topics and Seminar course descriptions