

## Boat Building

Students prepare for apprentice-level employment in the boat building industry, filling positions in shipyards, marinas, and private boat building companies. Students obtain experience through extensive hands-on training in the construction of wood and fiberglass boats and are prepared for employment as aluminum fabricators, fiberglass laminators, wood and fiberglass toolmakers, joiners, and marine carpenters. The program also provides extended learning opportunities for persons previously or currently employed in the industry.

### Associate of Technology Degree: 103 credits

#### Boat Building

	<u>Credits/Hours</u>
Completion Range: 13-19 Months	
BBOAT 091 Occupational Human Relations	1/16
BBOAT 092 Occupational Communication	1/16
BBOAT 093 Occupational Math	1/16
BBOAT 094 Occupational Safety	1/16
BOAT 098 Pre-Apprentice Welding (optional)	11/182
BOAT 101 Basic Woodworking & Tools	6/100
BOAT 113 Boat Design III - Lines	7/115
BOAT 114 Boat Design IV - Lofting	7/115
BOAT 121 Patterns	6/99
BOAT 131 Jigs & Framing	10/165
BOAT 151 Boat Design V - Modeling to Scale	3/50
BOAT 201 Wooden Boats I	6/100
BOAT 202 Wooden Boats II	5/85
BOAT 203 Wooden Boats Tool Maintenance	4/66
BOAT 204 Joinerwork I	4/66
BOAT 205 Repair and Restoration	9/150
BOAT 211 Fiberglass Lamination	7/115
BOAT 212 Fiberglass Boats I	6/100
BOAT 213 Fiberglass Boats II	5/85
BOAT 215 Emerging Technologies in Fiberglass	4/66
BOAT 216 Fiberglass Repair, Restoration	3/50
BOAT 251 Working with Epoxies	2/33
BOAT 251 Working with Epoxies	2/33
BOAT 299 Advanced Workplace Experience	10/165
BOAT 111 Boat Design I - Theory	2/33
BOAT 112 Boat Design II - Plans	1/17
BOAT 171 Emerging Industry Technologies	4/66
BOAT 231 Aluminum Welding	11/182
BOAT 232 Aluminum Boats I	7/114
BOAT 233 Aluminum Boats II	2/33
BOAT 241 Joinerwork II	7/114
BOAT 245 Marine Finishes	6/100
BOAT 271 Interior Repair, Restoration	4/66
BOAT 273 Propulsion Systems	6/100
BOAT 279 Professional Advancement Strategies	3/50
BOAT 291 Special Projects	10/165

#### General Education Requirements

	<u>Credits</u>
100-level or> Human Relations – HREL, PSYCH, SOC or CMST	5
100-level or> Communications – ENGL or CMST	5
100-level or> Mathematics – MATH	5

### Certificate of Training: 41 credits

#### Wood/Composite Boat Building

	<u>Credits/Hours</u>
Completion Range: 5 Months	
BBOAT 091 Occupational Human Relations	1/17
BBOAT 092 Occupational Communications	1/17
BBOAT 093 Occupational Math	1/17
BBOAT 094 Occupational Safety	1/17
BOAT 201 Wooden Boats I	6/100
BOAT 202 Wooden Boats II	5/85
BOAT 203 Wooden Boats Tool Maintenance	4/66
BOAT 204 Joinerwork I	4/66
BOAT 205 Repair & Restoration	9/150
BOAT 241 Joinerwork II	7/114
BOAT 251 Working with Epoxies	2/33

### FACULTY

Chuck Graydon, 253.680.7439, cgraydon@bates.ctc.edu  
http://www.bates.ctc.edu/Boatbuilding

### Certificate of Competency: 85 credits

#### Boat Builder

	<u>Credits/Hours</u>
Completion Range: 10-17 Months	
BBOAT 091 Occupational Human Relations	1/17
BBOAT 092 Occupational Communications	1/17
BBOAT 093 Occupational Math	1/17
BBOAT 094 Occupational Safety	1/17
BOAT 101 Basic Woodworking & Tools	6/100
BOAT 113 Boat Design III - Lines	7/115
BOAT 114 Boat Design IV - Lofting	7/115
BOAT 121 Patterns	6/99
BOAT 131 Jigs & Framing	10/165
BOAT 151 Boat Design V – Model to Scale	3/50
BOAT 201 Wooden Boats I	6/100
BOAT 202 Wooden Boats II	5/85
BOAT 203 Wooden Boats Tool Maintenance	4/66
BOAT 204 Joinerwork I	4/66
BOAT 205 Repair & Restoration	9/150
BOAT 211 Fiberglass Lamination	7/115
BOAT 212 Fiberglass Boats I	6/100
BOAT 213 Fiberglass Boats II	5/85
BOAT 215 Emerging Technologies in Fiberglass	4/66
BOAT 216 Fiberglass Repair, Restoration	3/50
BOAT 241 Joinerwork II	7/114
BOAT 245 Marine Finishes	6/100
BOAT 251 Working with Epoxies	2/33

#### General Education Requirements

	<u>Credits</u>
90-level or> Human Relations – HREL, PSYCH, SOC or CMST	3
90-level or> Communications – ENGL or CMST	3
90-level or> Mathematics – MATH	3

90-level credit units apply toward meeting certificate requirements, but do not apply toward degree requirements.

### Certificate of Training: 43 credits

#### Basic Boat Building - Design & Construction

	<u>Credits/Hours</u>
Completion Range: 5 Months	
BBOAT 091 Occupational Human Relations	1/17
BBOAT 092 Occupational Communications	1/17
BBOAT 093 Occupational Math	1/17
BBOAT 094 Occupational Safety	1/17
BOAT 101 Basic Woodworking & Tools	6/100
BOAT 113 Boat Design III - Lines	7/115
BOAT 114 Boat Design IV - Lofting	7/115
BOAT 121 Patterns	6/99
BOAT 131 Jigs & Framing	10/165
BOAT 151 Boat Design V – Model to Scale	3/50

### Certificate of Training: 37 credits

#### Fiberglass Boat Building & Repair

	<u>Credits/Hours</u>
Completion Range: 4-5 Months	
BBOAT 091 Occupational Human Relations	1/17
BBOAT 092 Occupational Communications	1/17
BBOAT 093 Occupational Math	1/17
BBOAT 094 Occupational Safety	1/17
BOAT 211 Fiberglass Lamination	7/115
BOAT 212 Fiberglass Boats I	6/100
BOAT 213 Fiberglass Boats II	5/85
BOAT 215 Emerging Technologies in Fiberglass	4/66
BOAT 216 Fiberglass Repair, Restoration	3/50
BOAT 245 Marine Finishes	6/100
BOAT 251 Working with Epoxies	2/33