COURSE/CLASS - ADVANCEMENT OPPORTUNITIES AT THE PORT			
COURSE/CLASS ABBREVIATION	**COURSE/CLASS SUBJECT**	**SUBJECT DESCRIPTION**	**ADVANCEMENT RANK (LTRS) & №**
APPRENTICE ADVANCEMENT COURSES & CLASSES			
Check In	Swim Test	Standard swim test for Scouting: 75 yards + 25 yards rest stroke = 100 yards continuous, float on back.	App 4. a.
SAD 101	Safe Swim Defense	Standard (required) Scouting America youth and adult training class.	App 4. b.
ELS 201	VHF Distress Communications	Use of VHF to send Pan Pan, Security, and/or Mayday.	App 5. c
VMR 201	Safe Equipment Uses	Safe use of power tools, lifts, etc. used by Ships.	App 5. d.
SAL 101	Vessel Safety Checks	Review a VSC form and perform with assistance of VSC Examiner a vessel safety check.	App 5. e.
SAL 101	Boat Parts	Name the principal parts of a typical sailboat, runabout, canoe, kayak, SUP, and raft.	App 7.a.
SAL 101	Heaving Line	Demonstrate the ability to use a heaving line by throwing a rescue throw bag and hit a four-foot-wide target 30 feet (10 meters) away. Then, without hesitation, retrieve the line, and immediately throw it as a coil, and hit a four-foot-wide target 21 feet (seven meters) away. Finally, retrieve the line and re-stuff the bag.	App 7 c.
ORDINARY ADVANCEMENT COURSES & CLASSES			
SWM 101	Swimming MB	Pass all requirements for the Scouting America's Swimming merit badge.	Ord 4. A.
SAD 101	Safety Afloat	Standard (required) Scouting America youth and adult training class.	Ord 5. a.
SAL 101	Vessel Drills	Plan and practice the following drills: man overboard, fire, and abandon ship.	Ord 5. d.
ELS 201	Types Communications	Describe any three types of equipment used in marine communications.	Ord 5. e
ELS 201	Use Communication Devices	Demonstrate proficiency with the communication devices.	Ord 5. f
LCP 101	Galley Meals	Submit a menu that uses cooked and uncooked dishes, a list of provisions, and estimated costs for a day's meal (breakfast, lunch, and dinner).	Ord 5. g. i.
LCP 101	Galley Stoves	Explain the use of charcoal, iso-butane, white gas, and propane. Include safety precautions for each.	Ord 5. g. ii.
LCP 101	Galley Sanitation	Demonstrate appropriate sanitation techniques for food preparation and meal cleanup.	Ord 5. g. iv.
SAL 101	Line Handling	Demonstrate your ability to secure a line to pilings, cleats, and rings, and to coil, flake, and Flemish a line.	Ord. 6. c.
VMR 201	Rope Handling	Demonstrate how to cut and heat-seal a synthetic line and whip the end of plain-laid line using waxed cord or similar material.	Ord. 6. d.

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SAL 101	Sailboat Parts	Name the principal parts of the masts, booms, spars, standing and running rigging, and sails of a gaff- or Marconi-rigged sloop, schooner, and ketch or yawl.	Ord. 7. a.
SAL 101	Row Boat Handling	Demonstrate your ability to handle a vessel with paddles or oars by doing one of the following: Safely board a rowboat and row in a straight line for 200 feet, stop, make a pivot turn, return to the starting point, and backwater in a straight line for 40 feet. Make a turn and return to the starting point.	Ord. 7. b.
GVR 201	Anchoring Abilities	Describe five types of anchors. Describe how each type holds the bottom, the kind of bottom in which it holds best, and the advantages or disadvantages of each type. Discuss the challenges of using an anchor with paddlecraft compared to larger vessels.	Ord. 8. b.
GVR 201	Anchor Rode	Calculate the amount of anchor rode necessary for the following depths: 10, 20, and 30 feet in normal and storm conditions.	Ord. 8. c.
GVR 201	Set & Weigh Anchor	Demonstrate the ability to set and weigh anchor appropriate for your vessel.	Ord. 8. d.
NAV 201	Why Navigational Rules?	Explain the purpose of Navigation Rules, International, and Inland.	Ord. 9. a.
NAV 201	No One Is Right	Know the general "Rule of Responsibility."	Ord. 9. b.
NAV 201	Stand-on & Give-way	Define stand-on and give-way vessels for the following situations: meeting, crossing, and overtaking for both power and sailing vessels.	Ord. 9. c.
NAV 201	Vessel Priority	Explain "Responsibility Between Vessels"	Ord. 9. d.
NAV 201	Vessel Lighting	Explain the navigation lights required for power-driven and sailing vessels underway. Explain what is required for a vessel under oars. Describe the lighting requirements for paddlecraft. Explain why carrying a sound-producing device, such as a whistle, is important when operating a paddlecraft.	Ord. 9. e.
NAV 201	Sound Signals	Describe the sound signals for maneuvering, warning, and restricted visibility.	Ord. 9. f.
NAV 201	Latitude - Longitude	Demonstrate your understanding of latitude and longitude. Using a chart, demonstrate that you can locate your position from given coordinates and determine the coordinates of at least five aids to navigation.	Ord. 10. a.
NAV 201	Compass Degree System	Explain the degree system of compass direction. Explain variation and deviation and how they are used to convert between true headings and bearings to compass headings and bearings.	Ord. 10. b.
NAV 201	Speed, Distance Devices	Describe three kinds of devices used aboard ship for measuring speed and/or distance traveled and, if possible, demonstrate their use.	Ord. 10. c.
NAV 201	24 Hour & 12 Hour time Systems	Explain the 24-hour time system and demonstrate that you can convert between 12- and 24-hour time.	Ord. 10. d.

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NAV 201	Time Zones & UTC	Understand Coordinated Universal Time (Greenwich Mean Time or Zulu Time) and zone time. Demonstrate your ability to convert from one to the other for your local area.	Ord. 10. e.
NAV 201	Deck Logs & Plotting Data	Make a dead reckoning table of compass and distances (minimum three legs) between two points, plot these on a chart, and determine the final position. Note: Ideally this requirement should be met while underway. If this is not possible, it may be simulated using charts.	Ord. 10. F.
ELS 201	Global Positioning System (GPS) Functions	Discuss how a GPS unit works. Explain possible uses and functions including different screen views. Use a GPS unit to set a waypoint and navigate to the waypoint you have set.	Ord. 10. g.
NAV 201	Lookout Duties	Explain the duties of a lookout and demonstrate how to report objects in view and wind directions with respect to the vessel.	Ord. 11. b.
GVR 201	Relative Bearings	Name relative bearings expressed in degrees.	Ord. 11. c.
GVR 201	Deck Logs	Describe the deck log kept aboard a vessel.	Ord. 11. f.
MWX 201	NWS Bulletins	Read and understand a local weather bulletin. Know how to obtain current marine and weather reports from the National Weather Service in your area by telephone or radio, or online.	Ord. 13. a.
MWX 201	NWS River Data	Find a river in your area and review the forecasted flow levels by using the National Weather Service's Hydrologic Prediction Service's map and graphs. Compare forecasted flow levels to average flow levels using the USGS National Water Information System web page.	Ord. 13. b.
LCP 101	Overnight Cruise	Plan and participate in an overnight cruise. If you cannot sleep aboard your vessel, participating in a multi-day trip will meet this requirement.	Ord. 14. a.
BSC 101	Boating Safety Course USPS –America Boating Course	Successfully complete a boating safety course approved by the National Association of State Boating Law Administrators (NASBLA) offered by one of the following agencies: a state boating agency, America's Boating Club, the United States Coast Guard Auxiliary, or other private or military education courses.	Ord. 15. a.
ABLE ADVANCEMENT COURSES & CLASSES			
LIF 201	Lifesaving Merit Badge	Pass all requirements for Scouting America's Lifesaving merit badge.	Abl 4. a.
VMR 201	Vessel Checklist	Develop and use a customized vessel safety checklist for a boat used by your ship.	Abl 5. a.
ENG 101	Fire Prevention	Demonstrate your understanding of fire prevention on motorized vessels.	Abl 5. b.
SFA 201	First Aid	Complete the certification for standard first aid through the American Red Cross, the American Heart Association, or other approved organization's standard first-aid course.	Abl 5. f.
SFA 201	CPR	Complete the certification for CPR through the American Red Cross, the American Heart Association, or other approved organizations' course.	Abl 5. g.

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GVR 201	Anchor Rode	Describe the various kinds of anchor rode and the advantages and disadvantages of each type.	Abl 8. a.
GVR 201	Anchor Cable	Identify the parts of the anchor cable starting with the anchor and ending at the vessel.	Abl 8. b.
GVR 201	Marking Rode	Describe the methods of marking chain or rode and demonstrate that you know the chain or rode markings on your ship's vessel.	Abl 8. c.
GVR 201	Anchor Watch	While on a cruise assist in the construction of an anchor watch schedule and stand one watch.	Abl 8. d.
NAV 201	Reading Charts	Read in detail a National Ocean Service (NOS) chart, preferably for the area normally cruised by your ship, identifying all marks on it.	Abl 9. d.
GVR 201	Keeping a PORT deck Log	Supervise the proper keeping of a complete deck log for three days of cruising (one cruise or a combination of day cruises). Submit the cruise logs to your Skipper.	Abl 10. a.
NAV 201	Lay a Course & Use Dead Reckoning	Lay a course of at least three legs and execute it using dead reckoning.	Abl 10. b.
ELS 201	Radar Fix	Discuss how radar is used in situational awareness and the method of taking a radar fix.	Abl 10. f.
NAV 201	Tide, Current Tables, Light List & Notice to Mariners	Explain the use of tide tables, current tables, and light lists, and how to update a chart using the Notice to Mariners.	Abl 10. g.
VMR 201	Maintenance Safety	Demonstrate your knowledge of personal safety equipment needed while cleaning, maintaining, or repairing your vessel.	Abl 11. a.
VMR 201	Vessel Coatings	Demonstrate proper surface and coating preparation, coating techniques, care of stored coatings, and cleaning of brushes and tools used to maintain surfaces on your ship's vessel.	Abl 11. d.
VMR 201	Hull & Deck Repair	Explain techniques used for the maintenance, protection, and repair of hulls and decks on your ship's vessel.	Abl 10. e.
MWX 201	Reading Wx Instruments	Demonstrate your ability to read a barometer, thermometer, anemometer, and weathervane. Be familiar with the Beaufort Wind Force Scale.	Abl 13. a.
QUARTERMASTER ADVANCEMENT COURSES & CLASSES			
MWX 201	Heavy Wx Precautions	Know the heavy-weather precautions taken aboard power, sailing, and paddle vessels when dangerous weather approaches, and demonstrate these precautions aboard the vessel used by your ship.	Qtr 5. a.
MWX 201	Ltd. Visibility Precautions	Know the special precautions that should be taken when limited visibility is encountered.	Qtr 5. b.
MWX 201	Wx Forecasting	Demonstrate your knowledge of the weather signs for your local area, including cloud types. Prepare a 48-hour forecast and compare your forecast with the actual weather that occurred.	Qtr 11. b.

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LEVEL ONE (1) ELECTIVES COURSES & CLASSES			
SAL 101	Sailing a Triangle Course	In a cat-rigged or similar small vessel, demonstrate your ability to sail single- handedly a triangular course (leeward, windward, and reaching marks). Demonstrate beating, reaching, and running. A qualified sailing instructor should observe this requirement.	Sail L1.
ENG 101	Perform Routine Engine Maintenance	Perform routine maintenance on your ship's propulsion system, including filter, spark plug, oil changes, proper fueling procedures, and other routine maintenance tasks. Refer to operations manuals or your ship's adult leaders for correct procedures and guidance.	Engines L1.
BSC 101	Become a USPS Member	Be inducted as a member of your local America's Boating Club (USPSquadrons).	ABC L1.
LEVEL TWO (2) ELECTIVES COURSES & CLASSES			
ENG 101	Pre, Post, and Operational Check Lists	Understand the safe and proper procedures for the use of gasoline and diesel inboard engines, including fueling, pre-start checks, ventilation, starting, running, periodic checks while running, securing, postoperative checks, and keeping an engine log.	Engines L2. a.
ENG 101	Trouble Shooting	Using the type of engine aboard the vessel you most frequently use, demonstrate your understanding of basic troubleshooting and the preventive maintenance schedule recommended by the manufacturer.	Engines L2. b.
VMR 201	FRP Repairs	Demonstrate your proficiency and knowledge of fiberglass repair and gel coating while working on your ship's vessel or other similar vessel.	Ves. Maint. L2.
LEVEL THREE (3) ELECTIVES COURSES & CLASSES			
ENG 101	Types Propulsion Engines	Explain the principal features of steam turbine, turboelectric, direct reversing diesel, diesel-electric, gas turbine, nuclear, gasoline, and diesel engines and the relative advantages of each type.	Engines L3. a.
ENG 101	Spark & Compression Engines	Explain the operation of spark ignition and compression ignition for internal combustion engines used aboard small vessels.	Engines L3. b.
ENG 101	Engine Systems	Demonstrate your familiarity with the engine aboard the vessel used by your ship, including its principles of operation, fuel, lubrication, cooling and electrical systems, and their component parts.	Engines L3. c.
ENG 101	Engine Manual Trouble Shooting	Demonstrate your ability to locate and correct minor engine troubles according to the engine manufacturer's troubleshooting guide.	Engines L3. d.
ELS 101	Live Wire Rescue	Know and demonstrate the correct method of rescuing a person in contact with a live wire.	Electricity L3. a.
ELS 101	Battery Basics	Understand the construction of simple battery cells. Demonstrate the proper care of storage batteries.	Electricity L3. b.
ELS 101	DC & AC	Explain the difference between direct current and alternating current and the best uses for each.	Electricity L3. c.

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ELS 101	Circuit Protection	Demonstrate that you know how to replace fuses, reset circuit breakers, and properly splice shipboard electric cable.	Electricity L3. d.
ELS 101	Electrical Sys. Diagram	Submit a diagram of the electrical system aboard the vessel used by your ship.	Electricity L3. e.
ELS 101	Wire Amperage Loads	Explain wire tables, the current-carrying capacity of circuits, and the hazards and prevention of electrical overloading.	Electricity L3. f.
ELS 101	Electrolysis, Galvanic Corrosion	Explain electrolysis as applied to the deterioration of a boat's underwater fittings by galvanic action and its prevention.	Electricity L3. g.

Course/Class Name	No. of Sections	Instructors	Description of Course or Class
BSC 101 Boating Safety	TBD	Louis McBride, CI Bruce Rodgers, CI	Covers the NASBLA content for State safe boating education.
ELS 101 Electric Systems	TBD	Michael McBride, CI TBDI	Basics of vessel 12VDC and 125VAC electrical systems
ELS 201 Electronic Systems	TBD	Michael McBride, CI TBD	Key vessel electronic devices (i.e. VHF, chartplotters/GPS, radar, VHF communications, autopilot)
ENG 101 Propulsion Engines	TBD	David Joyce Dave Artigas	Introduction to gasoline and diesel propulsion engines, 4-stroke and 2-stroke engines, types of engine drives.
GVR 201 Ground Tackle Vessel Logs & Relative Bearings	TBD	Noel Guzman David Joyce	Discover the components of ground tackle and their various uses, anchoring ratios, how to complete vessel logs (e.g. deck logs) and how to communicate via relative bearings.
LCP 101 Long Cruise Planning	TBD	Bruce Rodgers, CI TBD	Develop the skill sets to trip and "Long Cruise" planning a implementation, and construct an example trip plan.
LIF 201 Lifesaving Merit Badge	TBD	GSC Waterfront Staff	Complete the requirements for Lifesaving merit badge.
MWX 201 Marine Weather	TBD	Bruce Rodgers, CI TBD	Learn to "read" the weather with the use of observations, instrumentation, and surface weather maps.
NAV 201 Navigation	TBD	Michael McBride, CI Louis McBride, CI	Master the arts of navigation and piloting with the use of nautical charts, plotting and measuring tools, along with critical calculations such as 24-hour time and 60D=ST.
SAD 101 Safety Afloat & Safe Swim Defense	TBD	Wayne Newland TBD	Complete the required Scout training for "Safety Afloat" and "Safe Swim Defense", both advancement requirements in the Sea Scout advancement portfolio.
SAL 101 Sailing	TBD	David Albury Tom McMullen GSCWaterfront Staff	Learn the basics of hull terminology and the components of fixed and running rigging. Rig a sailboat and use it for practicing the points of sail and vessel rules of the road.
SFA 201 Standard 1st Aid	TBD	American Heart Association Staff	Complete the certification for an AHA Standard First Aid course and the certification for CPR as prescribed by the AHA.
SWM 101 Swimming Merit Badge	TBD	GSC Waterfront Staff	Complete the requirements for Swimming merit badge.
VMR 201 Vessel Maintenance & Repair	TBD	David Joyce Dave Artigas	Introduction to filter and oil changes, impeller changes, and zincs. Chemical safety, FRP repairs, and tool safety.
NOTE		**CI**	Certified NASBLA Instructors, USPS (America's Boating Club)