

ME 121: Checklist for calibration of the salinity sensor

Date:

Group members:

Sub-project Leader

Your score	Max score	
_____	5	Raw data is saved I a digital file(s), e.g. a spreadsheet, with clear labels, date and group name
_____	5	Histogram of readings at each salinity calibration point are created
_____	5	Statistics for each salinity calibration point are computed and tabulated
_____	5	Forward, $arduino = f(salinity)$, and reverse, $salinity = g(arduino)$, curve fits to the raw data are obtained. Coefficients of curve fits to at least 5 decimal places are recorded
_____	5	2 Plots of raw data with superimposed cuve fits (forward and reverse) with proper labels are completed
_____	15	Running the fish tank with a calibration standard results in display of reasonably close salinity value (in salinity percentage) on the LCD panel.
_____	40	Total

Sub-project Leader

_____	5	Clear and responsive communication with instructor
_____	5	System is organized and ready for in-class verification
_____	5	All team members are knowledgable about system operation
	15	