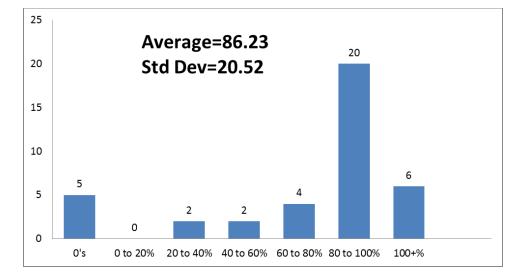
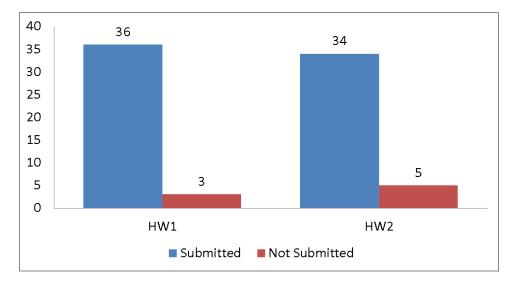
HW 2 REPORT

	Number of Students				
Total	39				
Submitted	34				
Not Submitted	5				



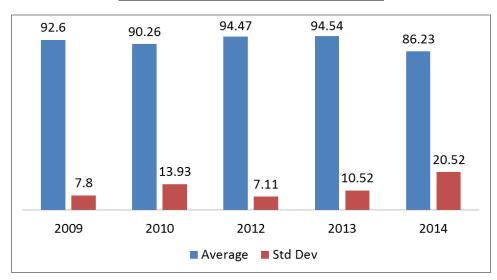
GRADE DISTRIBUTION

SUBMISSION HISTORY



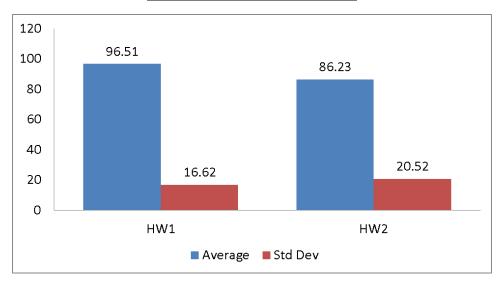
INDIVIDUAL PROBLEM BREAKDOWN

Problem	2.48	2.79	2.83	2.119	2.127	2.141	2.154	1.83	3.117	4.74	c2.2
Average w/o zeros	9.15	9.68	8.56	8.82	8.13	8.63	7.60	8.35	8.47	5.91	5.51
Std Dev	1.33	1.01	2.63	3.03	3.46	2.79	3.67	2.84	3.59	3.90	4.99



COMPARISON WITH LAST 4 YEARS

COMPARISON OF HW 2014



SPECIAL COMMENTS

Problem 2.48 - Manometer

• Students traversed the fluid correctly but did forgot to subtract from the pressure when moving up through the fluid and add when moving down

Problem 2.79 – Force Plane Surface

• Students did not realize the hydrostatic force acts at the center of pressure (Ycp) and not the center of mass

Problem 2.83 – Force Curved Surface

- Students did not realize the vertical force acting on gate was due to buoyancy and equals the weight of the displaced water from the gate
- Students did not find the center of mass of the gate properly

Problem 2.119 – Buoyancy

• Students had trouble finding the center of buoyancy of the displace water since the geometry was not simple

Problem 2.127 – Stability

• Students did not solve for both solutions of SG

Problem 2.141 – Uniform Acceleration

• Students used wrong equation for the pressure at the bottom of the tank

Problem 2.154 – Rigid Body Rotation

• Students did not solve for the differential volume and integrate over radius

Problem 1.83 – Streamlines

• Many students solved correctly but plots were lacking, no effort put into plots

Problem 3.117 – Uniform Acceleration

• Most students did excellent on Bernoulli problem

Problem 4.74 – Velocity Potential and Stream Function

- Some students did not attempt
- Issues with solving stream function correctly

Comprehensive 2.2 - Manometer

- Many undergrad students are not doing comprehensive problems
- Student who attempted, almost all got correct solution

All Problems

- Follow formatting laid out in information on website
- Make sure to use units and check for unit homogeneity
- Some students are using the solution manuals too copiously
 - \circ $\;$ Errors exist in solution manuals, and when found, very easy to spot copiers