Project 3

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Project 3 tasks are arranged into four modules: (0) an introduction to SolidWorks; (1) creating the ball valve assembly; (2) printing the ball valve; and (3) running a CFD simulation.

Except for **Prob. 1d**, the tasks may be split amongst group members and completed in any order.

Upload deliverable files with the below names (i.e., do NOT include group #) to Canvas as one group submission, and submit the 3D printed assembly in class on the due date.

Prob.	Assignment	Deliverables
0	Watch **SolidWorks - Intro Tutorial** (https://usflearn.instructure.com/courses/1149737/external_tools/26376) .	none
1a	Complete **SolidWorks - ball.SLDPRT** (https://usflearn.instructure.com/courses/1149737/external_tools/26376) . Dimensions can be found in **ball.PDF** .	ball.SLDPRT
1b	Complete **SolidWorks - side.SLDPRT** (https://usflearn.instructure.com/courses/1149737/external_tools/26376) .	side.SLDPRT
1c	Complete **SolidWorks - handle.SLDPRT** (https://usflearn.instructure.com/courses/1149737/external_tools/26376) .	handle.SLDPRT
1d	Complete **SolidWorks - ball valve.SLDASM** (https://usflearn.instructure.com/courses/1149737/external_tools/26376) .	ball valve.SLDASM
2	Complete **SolidWorks - 3D Printing** (https://usflearn.instructure.com/courses/1149737/external_tools/26376) , print each part, and assemble them. Note: Printing is free in the DfX Lab but should be done ASAP due to printer availability. If you are unable to secure a printer in the DfX Lab, you will need to print at the Advanced Visualization Center at your own expense ($0.06/gram).	3D Printed Ball Valve
3	Download the **A1 - Ball Valve** folder from your Project 3 Materials. Complete **SolidWorks FlowSim Tutorial.pdf** , save the results, and upload the folder as a ZIP file.	A1 - Ball Valve.zip

	Note: Go to Tools > Add-Ins... > SolidWorks Flow Simulation 201# to activate.	

Points 50

Submitting a file upload

Due	For	Available from	Until
Nov 29, 2016 at 9:30am	Everyone	-	-

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