

3306 physics lectures, Spring 2026

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https://www.physics.smu.edu/saptarnab/PH3306_Spring_2026/

Based on Simon Dalley's lectures delivered in spring 2025



WARM UP 1: Fluids at rest

Write your answers in the space following the warm-up question if you can. Write as if you are explaining to a fellow student. If you need more space, you are probably over-thinking things.

Define a “Fluid”

In equations, define: “density”, “pressure”. What is the difference between “gauge pressure” and “atmospheric pressure”?

Explain why pressure increases with depth and why this leads to a buoyant force (draw diagrams to help).