

## 3306 physics lectures, Spring 2026

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[https://www.physics.smu.edu/saptarnab/PH3306\\_Spring\\_2026/](https://www.physics.smu.edu/saptarnab/PH3306_Spring_2026/)

Based on Simon Dalley's lectures delivered in spring 2025



### WARM UP 0: Equilibrium & Elasticity

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*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.*

**Is it possible for a rigid body to be moving and yet in equilibrium? Explain.**

**Is the center of gravity of the Earth at its center of mass? Explain.**

**Describe the deformation of otherwise rigid bodies subject to (a) tensile (b) compressive (c) shear (d) hydraulic stress.**