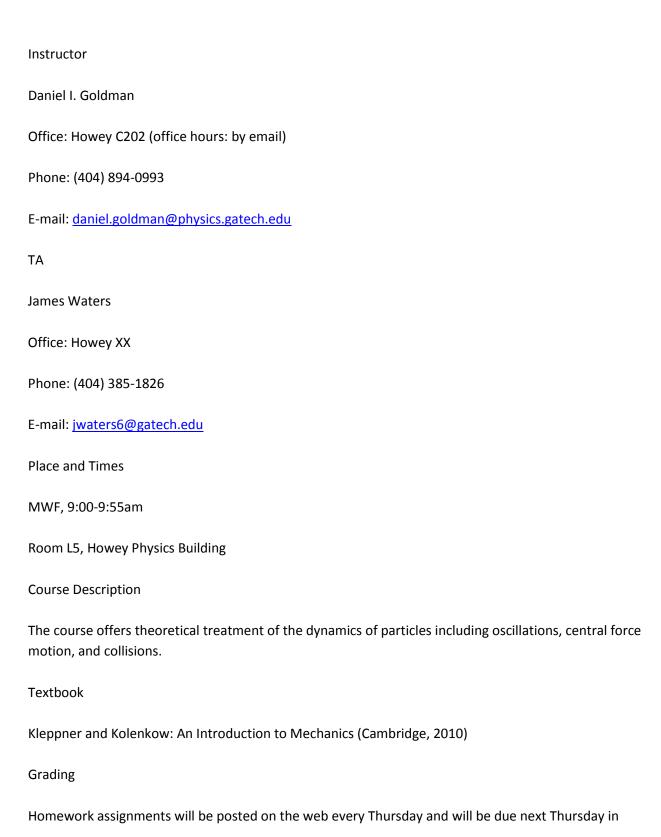
## Classical Mechanics I -- Phys 3201-A



class. You can discuss problems with each other, but the solutions have to be executed and submitted individually. In general you are expected to comply with the academic honor code. There will also be two midterm exams and a final. The overall grade for the course will be based on the homeworks (33%), mid-term exams (33%) and the final (34%).

## **Course Topics**

- \* Newton's laws
- \* Applications of Newton's laws
- \* Systems of particles and momentum conservation
- \* Momentum transport and rocket motion
- \* Work and energy
- \* Equilibrium states and stability
- \* Small oscillations about stable equilibria
- \* Collisions
- \* Angular momentum
- \* Oscillations
- \* Central force motion