

CLASSICAL MECHANICS

PHYS 410, YALE UNIVERSITY, FALL 2018

These are lecture notes for PHYS 410a, “Classical Mechanics,” taught by Charles Baltay at Yale University during the fall of 2018. These notes are not official, and have not been proofread by the instructor for the course. These notes live in my lecture notes respository at

<https://github.com/jopetty/lecture-notes/tree/master/PHYS-410>.

If you find any errors, please open a bug report describing the error, and label it with the course identifier, or open a pull request so I can correct it.

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Syllabus

Instructor	Charles Baltay, charles.baltay@yale.edu
Fellow	Varun Jorapur, varun.jorapur@yale.edu
Lecture	MW 11:35–12:50 PM, SPL 48
Recitation	F 11:35–12:50 PM, SPL 48
Textbook	Stephen Thornton and Jerry Marion. <i>Classical Dynamics of Particles and Systems</i> . 5th ed. Thompson, 2004
Final	Saturday, December 15, 2018, 2:00 PM

Advanced treatment of Mechanics, with a focus on the methods of Lagrange and Hamilton. Lectures will include Central Force Motion, Non-inertial Frames, Rigid Body Motion, and an introduction to Relativistic Mechanics.

References

- [TM04] Stephen Thornton and Jerry Marion. *Classical Dynamics of Particles and Systems*. 5th ed. Thompson, 2004.