

COURSE CALENDAR
PHYS 5306: "Classical Dynamics"
Fall 2021

Topics:

- I. Lagrangian and Hamiltonian mechanics (sections 1-10, 40): 8/24-9/14
- II. 1-d and central force problems (sections 11, 13-15): 9/16-9/30
- III. Collisions and scattering (sections 16-20): 10/7-10/21
- IV. Small oscillations (sections 21-23): 10/26-11/2
- V. Rigid body motion and non-inertial reference frames (sections 31-36, 38-39): 11/4-11/30

Important dates:

- 8/23: Classes begin
- 9/6: Labor Day holiday
- 11/24-11/28: Thanksgiving vacation
- 12/1: Last day of classes

Exams:

- Midterm 1: Tuesday 10/5 (in class)
- Midterm 2: Thursday 11/18 (in class)
- Final (oral): Saturday 12/4, 1:30 PM - 4:00 PM

Texts:

- "Mechanics" by Landau and Lifshitz
- "Classical mechanics" by Benacquistia and Romano
- "Classical mechanics" by Goldstein, Poole, Safko
- "Classical dynamics" by Marion and Thornton
- "The variational principles of mechanics" by Lanczos
- "Collection of problems in classical mechanics" by Kotkin and Serbo