COURSE CALENDAR
PHYS 5306: "Classical Dynamics"
Fall 2022

Topics:
I. Lagrangian and Hamiltonian mechanics (sections 1-10, 40): 8/30-9/13
II. 1-d and central force problems (sections 11, 13-15): 9/15-9/29
III. Collisions and scattering (sections 16-20): 10/6-10/20
IV. Small oscillations (sections 21-23): 10/25-11/1
V. Rigid body motion and non-inertial reference frames (sections 31-36, 38-39): 11/3-11/17
VI. Special relativity: 11/29-12/6

Important dates:
8/25: Classes begin
9/5: Labor Day holiday
11/23-11/27: Thanksgiving vacation
12/6: Last day of classes

Exams:
Midterm 1: Tuesday 10/4 (in class)
Midterm 2: Thursday 11/22 (in class)
Final (oral): Friday 12/9, 1:30 PM - 4:00 PM

Texts:
"Mechanics" by Landau and Lifshitz
"Classical mechanics" by Benacquista 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