

BOĞAZİÇİ UNIVERSITY - PHYSICS DEPT.

PHYS 301 Classical Mechanics I (3 Credits)

SUMMER 2026 SEMESTER SYLLABUS

(JUNE 24 - AUGUST 12)

Prerequisites: PHYS 102 or PHYS 121 or PHYS 130 and MATH 152.

Instructor: Serdar Nergiz nergiz@bogazici.edu.tr Office: KB 331-L

Textbook: An Introduction to Mechanics 2nd Ed., Daniel Kleppner & Robert Kolenkow.

Contents: Review of basic mathematical tools used in mechanics. Dynamics of particles and systems of particles. Conservation of energy, momentum, and angular momentum. Non-inertial systems and fictitious forces. Dynamics of rigid body motion. Motion under a central force (if time permits).

Schedule : 6 Lecture hours per week.

Lecture Hours		Monday	Tuesday	Wednesday	Thursday	Friday
9:00	9:50				301 Reserved	
10:00	10:50				301 Reserved	
11:00	11:50	301 Reserved				
12:00	12:50	301 Reserved				
13:00	13:50		301 Lecture	301 Lecture	301 Lecture	
14:00	14:50		301 Lecture	301 Lecture	301 Lecture	
15:00	15:50					
16:00	16:50					

Attendance: Students are expected to come to class regularly and on time. Since additional material may be covered in the classes, the class attendance is very important. Students should be prepared to discuss the textbook material and to have worked on the suggested problems.

Exams: There will be one midterm exam and a final exam. Both exams are closed book, calculators are not allowed.

Make-Up Exams : There will **not** be any make-up exams (both for midterm and final) during the summer term, due to time constraints. Thus, we strongly recommend you to be present for the exams, unless it is absolutely impossible.

Grading will be based on the sum of **class attendance** (10%), a **midterm exam** (40%) and **final exam** (50%). Letter grades will be assigned after the final exam according to the distribution of the total grade points.