

STATE UNIVERSITY OF NEW YORK
New Paltz, New York.

Thermal Physics
Course No. PHY335
Fall 2026

Instructor: Dr. T. Biswas
Office: SH 274
Phone: 257-3749
Email: biswast@newpaltz.edu
Website (Office hrs): www.engr.newpaltz.edu/~biswast

Text

An Introduction to Thermal Physics by Daniel V. Schroeder.

Course Description

The following topics will be covered in this course.

- Energy in Thermal Physics (Chap. 1).
- The Second Law (Chap. 2).
- Interactions and Implications (Chap. 3).
- Engines and Refrigerators (Chap. 4).
- Boltzmann Statistics (Chap. 6).
- Quantum Statistics (Chap. 7).

Evaluation

First exam (9/24/2026)	30%
Second exam (10/29/2026)	30%
Final exam (12/14/2026, 2:45–4:45)	40%

Problems for Home Work

Chap. 1 – 7, 8, 12, 16, 22, 36, 37, 39, 42, 47, 57, 62.
Chap. 2 – 3, 6, 8, 12, 13, 17, 23, 24, 29, 34.
Chap. 3 – 5, 10, 28.
Chap. 4 – 1, 2, 5, 7, 8, 10, 18.
Chap. 6 – 5, 11, 13, 16, 18, 20, 31, 35, 37.
Chap. 7 – 6, 12, 14.

Administrative Addenda

Student Learning Outcomes

To acquire basic skills in the principles governing heat, thermodynamics and statistical physics.

Campus-Wide Policies

<https://www.newpaltz.edu/acadaff/academic-policies-including-academic-integrity/>

Deadlines

<http://www.newpaltz.edu/events/academic.php>