Final Exam (Fall 2025)

PHYS 205B: UNIVERSITY PHYSICS

School of Physics and Applied Physics, Southern Illinois University-Carbondale
Date: 2025 Dec 9

(Name)	(Signature)

Instructions

- 1. Seating direction: In alternate rows, B, D, F, ..., on even-numbered seats.
- 2. Total time = 120 minutes.
- 3. There are 4 short questions and 3 homework-style problems in this exam.
- 4. Equation sheet is provided separately.
- 5. For partial credit you need to present your work in detail and organize it clearly.
- 6. A simple calculator (with trigonometric functions) is allowed.
- 7. Use of smart devices, including smart watches, is strictly prohibited. They should stay out of reach during the exam.
- 8. Academic misconduct will lead to a failing grade in the course.

- 1. (5 points.) Content before MT-01.
- 2. (5 points.) Content between MT-01 and MT-02.
- 3. (5 points.) Content between MT-02 and MT-03.
- 4. (5 points.) Content after MT-03.
- 5. (10 points.) Content before MT-03.
- 6. (10 points.) On spherical mirrors. Ray diagram.
- 7. (10 points.) On spherical lens. Ray diagram.