

# (Preview of) Final Exam (2024 Spring)

## PHYS 205B: UNIVERSITY PHYSICS

*School of Physics and Applied Physics, Southern Illinois University–Carbondale*

Date: 2024 May 7

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(Name)

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(Signature)

### Instructions

1. Seating direction: Please be seated on seats with seat-numbers divisible by 4.
2. Total time = 75 minutes.
3. There are 4 short questions and 3 homework-style problems in this exam.
4. Equation sheet is provided separately.
5. To be considered 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. Restroom breaks are allowed. Under questionable circumstances this might lead up to a Makeup Exam.
9. 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.