

# PHYSICS 616 — Spring 2026

## Fields I (Course Information)

**Room:** SRN-385 **Time:** Tue & Fri, 12:10–1:30 pm

**Instructor:** Sergei Lukyanov

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E-mail: [sergei@physics.rutgers.edu](mailto:sergei@physics.rutgers.edu) (preferred)

**Office hours:** Monday 11:00 am–1:00 pm (or by appointment)

**Lecture Notes:** Posted throughout the semester, either before or after each lecture. They are primarily based on the lecture materials from A. B. Zamolodchikov’s Fields I course. The course will not follow any single textbook closely.

**Recommended Text:** M. Peskin and D. Schroeder, *An Introduction to Quantum Field Theory*.

### Homework:

- Assignments every 1–2 weeks.
- Late homework **not accepted**. Absolute deadline: **7:00 pm** on the due date.
- Typed solutions (preferably L<sup>A</sup>T<sub>E</sub>X) are ideal; neatly written handwritten work is acceptable.
- **Sloppy work will not be accepted.**

**Exams:** No midterm. A take-home Final Exam will be posted near the end of the semester; at least one week will be given to complete it. Submission rules will match those for homework.

**Exercises:** Occasional “Exercises” will be suggested. They are not graded but strongly recommended.

### Grades:

- Homework: 50%
- Final Exam: 40%
- Instructor’s discretion: 10%

Grades will be announced a few days before the official deadline so corrections can be requested if needed.

**Students with Disabilities:** Students requiring accommodations should contact the instructor early in the semester and arrange for a Letter of Accommodation from the Office of Disability Services.