

Physics (MS) – Sciences

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Step 1: Student Learning Outcome

DLO 7: Quantitative analysis proficiency, effective communication skills, critical thinking and problem-solving skills.

Step 2: Assessment Methods and Measures

Final exam with a rubric; proficiency indicated by a score of 80% or higher.

Step 3: Criteria for Success

75% of students will score at least 80% on the final exam.

Step 4: Summary of Results

The PHYS 570 performance data reveal a strong concentration of high-performing students across assignments and exams, with most scoring in the 90-100 range. While the majority excelled, a consistent minority of students scored below passing (0-59) or in the lower ranges (60-79), particularly in exams like Midterm 2 and the Final. 75% of students met criterion.

Step 5: Action Plan

To improve student performance in PHYS 570, focus on supporting underperforming students through tutoring, review sessions, and targeted resources. Enhance exam preparation by incorporating practice exams and frequent low-stakes quizzes. For high achievers, provide advanced opportunities to maintain engagement and motivation. Collect feedback to refine teaching and support strategies continually.