

## FROST CENTER FOR DATA AND RESEARCH

**Program Outcomes** 

Program	

-	On which outcomes will you be reporting? (select all that apply) Please enter separate measures of the outcome occurring in the same academic year as two separate submissions.
<b>~</b>	Outcome 1: Graduates will be able to demonstrate an understanding of the essence of physics laws and concepts without mathematics.
<b>✓</b>	Outcome 2:Graduates will be able to apply broad concepts in physics to specific problems in order to come to numerical, analytical, and approximate solutions.
	Outcome 3: Graduates will be able to write a report, discuss the content, and describe the conclusions to a variety of audiences.
	Outcome 4:Graduates will be able to identify and implement appropriate computational tools (software, coding, programming, and/or scripting) to solve a variety of problems both in the context of the classroom and in research projects.
	Outcome 5: Graduates will know how to identify relevant existing works in literature that inform or support their own scholarly work and provide accurate citations and recognition where appropriate when presenting their own work.
	Outcome 6: Graduates will be able to conduct effective research which will include computer use, problem solving, hypothesis testing, and analysis of uncertainties.
	Outcome 7:
	Outcome 8:
	Outcome 9:
	Outcome 10:
	Outcome 11:
	Outcome 12:
	Outcome 1: Graduates will be able to demonstrate an understanding of the essence of physics laws and epts without mathematics.
Q7. E	End of academic year:
2022	

*Q8.* Please upload any related files (pdf, doc, xls, csv, zip). Multiple files can be condensed and uploaded in a zip file  $\underline{\mathbb{I}}$ 

## PHYS-361-02 F21-Analytical Mechanics Assessment-grades.zip

115.4KB application/zip

Q12. Review of Results 🛚

Q9. Outcome 1:		
Assessment tool [	Force Concept Inventory in Analytical Mechanics (Phys362) and Conceptual Survey of Electricity and Magnetism in Electricity and Magnetism (Phys342))	,
Measure <u>I</u>	Percentage correct	
Target []	75% on FCI and 60% on CSEM	
Results [	92.5% on FCI and 69.8% on CSEM	
Q10. Was the target met?		
Yes No		
Q147. Improvements and  This is the first assessment.	changes made since the last assessment: []	
Q11. Results Narrative [		
F21 Analytical FCI 92.5% Here intro physics labs the scores we	we are meeting the goal S22 E&M CSEM 69.8% Here we are meeting the goal but can we do better here? FY ere: F21 FCI was 56.9%, F21 CSEM was 44.1%, S22 was 36.4%.	/I In the

improvement. Departmental discussion about this identified that the tes	nt relative to those in the introductory course but there is certainly room for ts and homework sets in this class are vey directed at problem solving rather than
on simple articulation of conceptual Electricity & Magnetism.	
Q13. Improvements Planned []	
When this course is next taught the coverage will remain the same but solving will be included in the class as part of homework.	problems that ask student to focus on the essence rather than detailed problem
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## FROST CENTER FOR DATA AND RESEARCH

Q130.

**Program Outcomes** 

Program: Sociology

Outcome 12:

Q5. On which outcomes will you be report same outcome occurring in the same acad	ing? (select all that apply) Please enter separate measures of the demic year as two separate submissions.
Outcome 1: Students will explain and compare s	ociological theories and use theory to explain human behavior.
Outcome 2:Students will describe and interpret the	ne social and cultural processes that inform social interaction.
Outcome 3: Students will understand and apply of critically evaluate sociological research.	data collection and analysis techniques used by sociologists and
Outcome 4:Students will describe and interpret the difference that exists in societies.	ne forms and sources of social stratification, inequality, and
Outcome 5: Students will integrate their sociologic	cal imagination with their post-graduation plans.
Outcome 6:	
Outcome 7:	
Outcome 8:	
Outcome 9:	
Outcome 10:	
Outcome 11:	

Q22. Outcome 3: Students will un sociologists and critically evaluate	derstand and apply data collection and analysis techniques used by sociological research.
Q23. Year:	
2021 🕶	
Q24. Please upload any related fi	les. Multiple files can be condensed and uploaded in a zip file $  \underline{\square} $
Q25. Outcome 3:	
Assessment tool $\underline{\Box}$	Either the GRE-Subject test or re-administer shared final from SOC-101 Intro in the 495-Capstone course.
Measure <u>□</u>	Students will understand and apply data collection and analysis techniques used by sociologists and critically evaluate sociological research
Target <u>□</u>	80% of graduating students will have an average of 75% or more on those 10 questions or be in the 60th percentile or higher on the Majors Field exam
Results <u>□</u>	The mean percent correct in the Capstone class for Methods and Stats was 44%.

Yes No

Q26. Was the target met?

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$Q149$ . Improvements and changes made by the department since the last assessment of this outcome: $\Box$
Our Research Methods class has been revised to include a more rigorous paper and poster presentation assignment. However, due to Covid, Methods was taught online and the research poster assignment had to be scaled down.
Q27. Results Narrative □
We will try the improved research paper and poster presentation in Spring 2022 and hope to be in person in hopes of higher scores on the ETS major field exam.
Q28. Review of Results □
As a department, we discussed the results. We were conducted a pre- and post-test with our methods students and found that, while their scores did r increase, their confidence in their ability to do research did. (ASA grant)
Q29. Improvements Planned □
Some plans: 1. Teach Research Methods in a traditional face-to-face modality 2. Encourage students to present their research posters at conferences including the Hope College Celebration of Undergraduate Research 3. Encourage faculty to include students in their own research so that students ge practice applying Methods concepts.
Q30. Outcome 4: Students will describe and interpret the forms and sources of social stratification, inequality, and difference that exists in societies.
Q31. Year:
2021 🗸

Q32. Please upload any related files. Multiple files can be condensed and uploaded in a zip file  $\ \ \ \ \ \ \ \$ 

Q33. Outcome 4:		
Assessment tool $\Box$	GRE-Major Field test	
Measure <u>□</u>	Students will describe and interpret the forms and so difference that exists in societies.	urces of social stratification, inequality, and
Target <u>□</u>	80% of graduating students will have an average of 75% or more on those 10 questions or be in the 60th percentile or higher on the Majors Field exam	
Results <u>□</u>	The mean percent correct for the class was 63% for Race and Ethnicity and 66% for Gender.	
Q34. Was the target met?		
Yes No		
Q150. Improvements and changes	s made by the department since the last a	assessment of this outcome: $\Box$
race and gender.		
Q35. Results Narrative □		
	lass that took the GRE Major Field exam.The area with every class and it has been the highest for the last 4 50% correct.	
Q36. Review of Results □		
We reviewed these results at our August d	epartment retreat.	

Q37. Improvements Planned □
1. To include more components on race in other Sociology courses. 2. To offer informal discussions with CDI for student conversation around race. 3. To offer a book club/reading group with a book on the topic of race. We expect to see an improvement in the next GRE major field test.