# GPGN 228: Introduction to Rock Physics
## Building Bridges between Geology and Physics

## BACKGROUND

**Course Context**
- Fall term, sophomore year
- First course in major sequence
- 40-45 students

**Goals**
1. Strengthen links between geology and physics through geophysics
2. Develop baseline knowledge for future geophysics courses
3. Encourage curiosity about geophysics and its applications

**Why redesign?**
- New course to lead off new curriculum.
- Similar course last taught in 2011.
- Course content based on input from faculty and students.

## REDESIGNED COURSE

### What and why?
We hope to create an open learning environment for our majors that:
1. Reactivates existing knowledge in geology and physics
2. Provides practical linkages between geology and physics to understand why we do geophysics
3. Provides real-world context and hands-on training
4. Enhances information exchange between lecture and lab
5. Promotes creative, outside-the-box thinking

### ASSESSMENT
- 1. Pre- and post-assessments
- 2. Mid- and end-course evaluations
- 3. Observations during discussion
- 4. Laboratory grades
- 5. Informal inquiries

## INTENDED OUTCOMES
**Students will have:**
1. Stronger foundation for future courses
2. Earlier development of self-inquiry to guide electives and careers paths
3. Buy-in to improve motivation
4. Confidence designing and implementing geophysical experiments

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Trefny I² Center
Innovative Instruction

“Five weeks of the engineering learning intensive have helped me improve my approach to teaching. I’m excited to implement some of what I’ve learned in all of my courses.”

Summer 2018 Cohort