

Spring 2025

GEOL / CE/ EnSci 413/513 (3 credits)

Applied & Environmental Geophysics

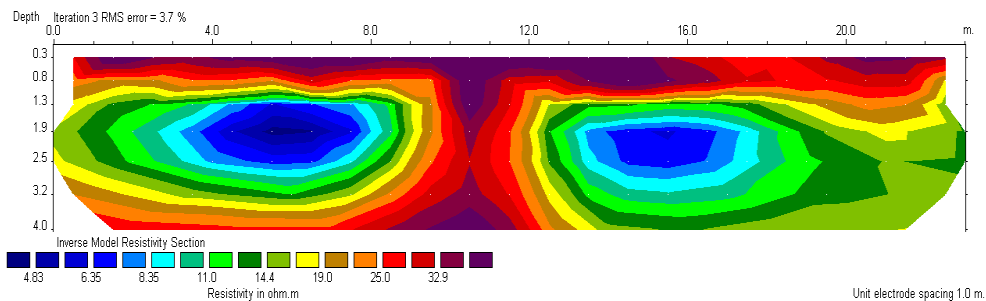
- **Seismic, electrical, electromagnetic, ground-penetrating radar, and gravity surveys**
- **Subsurface imaging**
- **Field work with seismic and radar equipment**
- **Geological-interpretation software**
- **Engineering site characterization**
- **Skills to work in environmental consulting and oil industry**

Instructor: Igor Beresnev, Geological & Atmospheric Sciences, beresnev@iastate.edu

Section #: 7599005/0039005 (Geol 413/513)
0042005/0040005 (EnSci 413/513)
0043005/0044005 (CE 413/513)

Schedule: MW 10-11, F 10-12 (Lab)

Prereq.: Introductory geology and math



Subsurface cross-section along the northern side of Science I building

Obtained using electrical-resistivity imaging. Field data will be collected and interpreted as part of this course.