HARP 170 – FRI Research Methods (2 credits)  
Offered in Fall 2016

This course is only open to students admitted to the FRI program. FRI students are required to take this course, both their assigned lecture and discussion sections.

For Biomedical Chemistry, Biofilms, Neuroscience, & Biomedical/Molecular Anthropology FRI Students

Lecture section – Wed 3:30-4:30 pm
Discussion sections – Wed 4:40-5:40 pm
  A01 – For FRI students admitted to Biomedical Chemistry stream
  A02 – For FRI students admitted to Biofilms stream
  A03 – For FRI students admitted to Neuroscience stream
  A04 – For FRI students admitted to Biomedical/Molecular Anthropology stream

For Smart Energy, Image and Acoustic Signals Analysis, Biogeochemistry, & Geospatial FRI Students

Lecture section – Wed 4:40-5:40 pm
Discussion sections – Wed 5:50-6:50 pm
  B01 – For FRI students admitted to Smart Energy stream
  B02 – For FRI students admitted to Image & Acoustic Signals Analysis stream
  B03 – For FRI students admitted to Biogeochemistry stream
  B04 – For FRI students admitted to Geospatial stream

Topics include:

- Emerging fields of research
- Designing a research project
- Finding & using library & internet resources
- Data collection & management
- Basic statistics
- Data analysis, including figures & charts
- Reporting research results
  - Powerpoint presentations
  - Posters for public professional meetings
- Teamwork & collaboration
- Research ethics
- Planning & charting your career path

This course covers these topics in parallel to student teams developing and presenting a course-long project. Each project explores a real science problem, with students delving into what is known, what isn’t known, and why and how they suggest investigating some portion of the unknown. The course ends with a public poster presentation by student teams.

This course is approved for “O” (Oral) general education requirement.