

## **GEO 171H: Research Methods**

### **Syllabus**

*Instructors:* William Carlson  
JGB 6.108, <wcarlson@mail.utexas.edu>, office hours by appointment

Mark Cloos  
JGB 6.112, <cloos@mail.utexas.edu>, office hours by appointment

*Overview:* Semester 1 of four-semester sequence in Jackson School of Geosciences Undergraduate Honors Research Program (UHRP). Lecture / discussion content determined on weekly basis to meet needs of students as they progress through the UHRP.

*Prerequisites:* Admission into UHRP; consent of instructor(s).

*Grading:* Grade based on completion of requirements listed below. Plus/minus grading scheme will be used.

*Requirements:*

- Attend one established research seminar per week: student chooses from weekly Soft-Rock, PGST, Hydro, and Geophysics seminars; Tech Sessions; UTIG and BEG lecture series; and any comparable special lectures. Attendance verified by faculty/research staff sign-off.
- Participate in weekly one-hour GEO 17xH plenary meeting of all students in UHRP.
- *By end of semester, identify research mentors: a graduate student and a faculty member who together agree to assist and supervise the student's research.*

*Final Exam:* None

*Notice:* Students with disabilities may request appropriate academic accommodations from the Division of Diversity and Community Engagement, Services for Students with Disabilities, 471-6259.

## **GEO 172H: Research Methods**

### **Syllabus**

*Instructors:* William Carlson  
JGB 6.108, <wcarlson@mail.utexas.edu>, office hours by appointment

Mark Cloos  
JGB 6.112, <cloos@mail.utexas.edu>, office hours by appointment

*Overview:* Semester 2 of four-semester sequence in Jackson School of Geosciences Undergraduate Honors Research Program (UHRP). Lecture / discussion content determined on weekly basis to meet needs of students as they progress through the UHRP.

*Prerequisites:* Satisfactory completion of GEO 171H; consent of instructor(s).

*Grading:* Grade based on completion of requirements listed below. Plus/minus grading scheme will be used.

*Requirements:*

- Attend one established research seminar per week: student chooses from weekly Soft-Rock, PGST, Hydro, and Geophysics seminars; Tech Sessions; UTIG and BEG lecture series; and any comparable special lectures. Attendance verified by faculty/research staff sign-off.
- Participate in weekly one-hour GEO 17xH plenary meeting of all students in UHRP.
- Meet bi-weekly with graduate student mentor and faculty member to develop research proposal.
- *By end of semester, prepare short (3-5 page) proposal for supervised research.*
- *Identify two qualified persons to serve as members of thesis committee.*

*Final Exam:* None

*Notice:* Students with disabilities may request appropriate academic accommodations from the Division of Diversity and Community Engagement, Services for Students with Disabilities, 471-6259.

## **GEO 173H: Research Methods**

### **Syllabus**

*Instructors:* William Carlson  
JGB 6.108, <wcarlson@mail.utexas.edu>, office hours by appointment

Mark Cloos  
JGB 6.112, <cloos@mail.utexas.edu>, office hours by appointment

*Overview:* Semester 3 of four-semester sequence in Jackson School of Geosciences Undergraduate Honors Research Program (UHRP). Lecture / discussion content determined on weekly basis to meet needs of students as they progress through the UHRP.

*Prerequisites:* Satisfactory completion of GEO 171H, 172H; consent of instructor(s).

*Grading:* Grade based on completion of requirements listed below. Plus/minus grading scheme will be used.

*Requirements:*

- Attend one established research seminar per week: student chooses from weekly Soft-Rock, PGST, Hydro, and Geophysics seminars; Tech Sessions; UTIG and BEG lecture series; and any comparable special lectures. Attendance verified by faculty/research staff sign-off.
- Participate in weekly one-hour GEO 17xH plenary meeting of all students in UHRP.
- Submit proposal, revised/shortened as needed, to University's Undergraduate Research Fellowship Program, and/or other funding sources.
- In collaboration with graduate student mentor and faculty supervisor, begin research.
- Weekly meetings with graduate student mentor and faculty supervisor, ideally as part of supervisor's research group
- *Meet with supervisor and committee members to review progress; verify with signature sheet.*
- *Present preliminary results at UHRP plenary meeting in latter part of semester.*
- *Provide summary of research project for upload to website.*

*Final Exam:* None

*Notice:* Students with disabilities may request appropriate academic accommodations from the Division of Diversity and Community Engagement, Services for Students with Disabilities, 471-6259.

## **GEO 379H: Honors Tutorial Course**

### **Syllabus**

*Instructors:* Tutorial: Each student works with an individual faculty mentor.

*Overview:* Semester 4 of four-semester sequence in Jackson School of Geosciences Undergraduate Honors Research Program (UHRP). Lecture / discussion content determined on weekly basis to meet needs of students as they progress through the UHRP.

*Prerequisites:* Satisfactory completion of GEO 171H, 172H, 173H; consent of UHRP Director.

*Grading:* Grade based on completion of requirements listed below. Plus/minus grading scheme will be used.

*Requirements:*

- Attend one established research seminar per week: student chooses from weekly Soft-Rock, PGST, Hydro, and Geophysics seminars; Tech Sessions; UTIG and BEG lecture series; and any comparable special lectures. Attendance verified by faculty/research staff sign-off.
- Participate in weekly one-hour GEO 17xH plenary meeting of all students in UHRP.
- In collaboration with graduate student mentor and faculty supervisor, complete research.
- Meet weekly with graduate student mentor and faculty supervisor, ideally as part of supervisor's research group.
- *Write Honors Thesis; submit to committee and Honors Advisors one week before defense.*
- *Defend thesis in presentation to UHRP plenary meeting attended by supervisory committee.*
- *Update website with final results.*

*Final Exam:* None

*Notice:* Students with disabilities may request appropriate academic accommodations from the Division of Diversity and Community Engagement, Services for Students with Disabilities, 471-6259.