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

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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

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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

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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.