

DGED - Graduate Education

DGED 524 Cellular Mechanotransduction: 3 Credits (3 Lec)

PREREQUISITES: Undergraduate students: upper division status within the major. Graduate students: good standing within graduate program.

NOTE: this course will co-convene undergraduate and graduate versions with additional work and depth required of graduate students. Solid and fluid mechanics and relationships to cell biology. This interdisciplinary course brings together topics from both engineering and molecular biology to understand the mechanisms by which cells respond to loading. Topics selected from: musculoskeletal, circulatory, lymphatic, chondrocyte, leukocyte, and cancer cell mechanotransduction

DGED 585 Thesis Prep in Absentia: 0

Thesis preparation for students enrolled in absentia.

DGED 591 Special Topics: 1-4 Credits (1-4 Lec)

PREREQUISITE: Upper division courses and others as determined for each offering. Courses not required in any curriculum for which there is a particular one time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number

Repeatable up to 12 credits.

DGED 613 IGERT: Scientific Proposal Writing: 3 Credits (3 Lec)

PREREQUISITE: Acceptance in IGERT Program; DGED 610 and DGED 611. The goal of this course is to provide the doctoral student with strategies, practical skills and experience in seeking funding sources and writing and evaluating scientific proposals. The student should leave this course with a proposal that is ready to submit for funding

DGED 614 IGERT: Advanced Methods in Geobiology: 3 Credits (1 Lec, 2 Lab, 1 Other)

PREREQUISITE: Acceptance in IGERT Program. This course is part of the required curriculum for IGERT students. The purpose is to provide students with the opportunity to learn advanced research methods that will allow them to understand complex geomicrobiological communities

DGED 676 IGERT: Geobiological Systems Science - Internship: 3 Credits (3 Other)

PREREQUISITE: Acceptance in IGERT Program, DGED 610 AND DGED 611. This course is part of the required curriculum for IGERT students, and provides an opportunity for IGERT students to participate in a domestic or international internship at an academic, private and or national laboratory