

Center for Environmental Resource Management Courses

Courses

ESE 6107. Graduate Seminar.

Graduate Seminar (1-0) Presentation and discussion of topics in environmental science and engineering by graduate students, faculty and visitors.

Prerequisite: Permission of the ESE program director.

Department: Environmental Science & Engr.

1 Credit Hour

1 Total Contact Hour

0 Lab Hours

1 Lecture Hour

0 Other Hours

ESE 6301. Environmental Law and Policy.

Environmental Law and Policy (3-0) Focus on the formulation, implementation, enforcement, and evaluation of environmental policies. A review of the legal and administrative environmental systems of both the United States and Mexico will be included. Questions of environmental risk and equity will be addressed. Prerequisite: Enrollment in the ESE program or permission of the ESE program director.

Department: Environmental Science & Engr.

3 Credit Hours

3 Total Contact Hours

0 Lab Hours

3 Lecture Hours

0 Other Hours

ESE 6307. Interdisciplin Envir Prob Solv.

Interdisciplinary Environmental Problem Solving (3-0) Students with different backgrounds will work in teams to examine interdisciplinary environmental issues specific to the far west Texas border region and prepare a group report with recommendations, which consider scientific, political, economic, and social aspects. Restricted to majors: ESE. Prerequisite: Enrollment in the ESE program and ESE 6306 or permission of the ESE program director.

Department: Environmental Science & Engr.

3 Credit Hours

3 Total Contact Hours

0 Lab Hours

3 Lecture Hours

0 Other Hours

Prerequisite(s): (PREQ ERROR)

ESE 6320. Adv Topics in Energy Engr.

Contemporary advanced energy topics such as secure and reliable energy supplies, clean power generation, hydrogen economy, energy efficiency, and critical infrastructure assurance. Prerequisite: Departmental approval. Restricted to graduate students.

Department: Environmental Science & Engr.

3 Credit Hours

3 Total Contact Hours

0 Lab Hours

3 Lecture Hours

0 Other Hours

ESE 6396. Doctoral Research.

Doctoral Research (0-0-3) Directed research on topics in environmental science and engineering related to the dissertation or conducted as a component of the student's overall graduate program. Restricted to majors: ESE. Prerequisite: Admission to the ESE program or permission of the ESE program director.

Department: Environmental Science & Engr.

3 Credit Hours

3 Total Contact Hours

0 Lab Hours

0 Lecture Hours

3 Other Hours

ESE 6398. Dissertation.

Dissertation (0-0-3) Taken when preparation of the dissertation is begun. One enrollment required. Restricted to majors: ESE. Prerequisite: Admission to the ESE program and passage of the comprehensive examination.

Department: Environmental Science & Engr.

3 Credit Hours

3 Total Contact Hours

0 Lab Hours

0 Lecture Hours

3 Other Hours

ESE 6399. Dissertation.

Disertation (0-0-3) Taken continuously during preparation of the dissertation. Restricted to majors: ESE. Prerequisite: Admission to the ESE program and ESE 6398.

Department: Environmental Science & Engr.

3 Credit Hours

3 Total Contact Hours

0 Lab Hours

0 Lecture Hours

3 Other Hours

Prerequisite(s): (ESE 6398 w/P or better)

ESE 6402. Environmental Chemistry.

Environmental Chemistry (3-3) Review of classification & properties of chemical materials of environmental interest. Study of chemical principles pertaining to acidity, basicity, redox properties, solubility, partitioning, & transport in the environment. Chemical reactions in aqueous, soil, sediment & atmospheric phases. Environmental analytical techniques. The laboratory emphasizes analytical protocols utilized in environmental laboratories. Restricted to majors: ESE. Prerequisite: One year of introductory work in chemistry. Enrollment in the ESE program or permission of ESE program director.

Department: Environmental Science & Engr.

4 Credit Hours

6 Total Contact Hours

3 Lab Hours

3 Lecture Hours

0 Other Hours