Course Syllabus

Course Name: Engineering and Construction Failures

Course Number: CE 5390, 3 credits

Instructor: Professor Marshall
Engineering Room A214
915.747.5765
asmarshall@utep.edu

Location/time: 6 PM, check Goldmine for location. No classes after the first class will be held until the last month of the course when presentations will be conducted.

Course Description: An examination of various civil, mechanical engineering and construction failures.

Textbook: Delatte, Beyond Failure 9780784409732

Exams: None

Class Structure: The first class will be an organizational meeting. After the first class, students are required to research and select a project involving a failure and report the name of the project to the professor and all students in the class within one week by email. Topics may include those in the textbook but then students must research the project beyond what is available in the textbook. Students failing to email their project name within one week should withdraw from the class because they will not be allowed to continue in the class. Student topics will be accepted on a first come, first serve basis. Students will then be required to write a report describing the failure with an assessment of their thoughts on how the failure could have been avoided that needs to be emailed to the professor and all the students in the class, due by October 13, 2014, at midnight MST. Reports shall conform to ASCE professional article format guidelines. Students will be required to make a 10 – 15 minute presentation about their project to the class and a group of faculty members on November 10, 2014 in class. If students cannot attend the presentation classes, they should withdraw from the course now or arrange to attend by Skype or similar means. If you use PowerPoint slides in the presentation, do not use more than 5 words per slide or your grade will be lowered. Students must analyze each student report/presentation and provide comments in writing by email by November 17. 2014 at midnight MST, providing their opinion of the failure and how the project should have avoided such a problem, as well as each project in the text.

Grading: Report/comments 50%
Presentation 50%

Academic Integrity: Academic integrity will be enforced in accordance with University and Department policies.

Disabilities: Students with disabilities will be accommodated. Students are required to notify the instructor of any disability at least one week before the start of class.