

CIVE 3331 Environmental Engineering

CIVE 3331 - ENVIRONMENTAL ENGINEERING

Document Name: CIVE3331_Exercises_000.doc

Purpose: Exercises related to Lecture # 0. These exercises develop library and Internet research capabilities, develop critical thinking skills, and exercise technical writing skills. Furthermore these exercises require the student to develop a collection of documents that will be necessary for professional licensing after graduation. Direct relationships to various accreditation objectives are highlighted in **Bold** type in the following sections. The exercises start on the next page.

Relevant ABET EC 2000 Criteria: Criterion 3 Program Outcomes and Assessment

- (3-f) **an understanding of professional and ethical responsibility.**
- (3-i) a recognition of the need for, and an ability to engage in life-long learning
- (3-j) **a knowledge of contemporary issues.**

Relevant CEE Educational Objectives:

- (4) **Instill in each student the importance of service to the engineering profession,** ethical conduct, and service **to society.**
- (5) **Prepare every student to develop the skills for critical thinking and lifelong learning.**
- (6) **Incorporate** the results of the latest research and provisions of **current** codes and **regulations in our undergraduate courses.**

Relevant CEE Program Outcomes:

- i. **Students** should **obtain a broad education that** furnishes them with a knowledge base and intellectual perspective, and **gives them an ability to understand the role** and the impact of civil **engineering** solutions in a global, **societal, and environmental context.**
- v. **Students should acquire the capability to** function and **communicate effectively,** both as **individuals** and as members of interdisciplinary teams.

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Exercise_000-1

The Texas Engineering Practice Act covers all aspects of professional engineering in Texas. What is the name and address of the state agency that administers the Act?

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Exercise_000-2

What is the relevant section of the Texas Engineering Practice Act explains what to do if you license certificate is lost or destroyed? (Give chapter number, section, etc.)

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Exercise_000-3

How many years may pass until an Engineer-in-Training certificate expires?

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Exercise_000-4

In the SER the recommended format is to break each engagement into three parts. The first two parts are the general description, the type or description of work; what is the third part of the engagement record that the Board recommends you report?

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Exercise_000-5

The professional career case study is the ethics examination that all PE applicants in Texas must pass. The actual exam (personal experience) is exactly like the sample exam (except the questions are different). Answer questions 1 and 2 of the Professional Career Case Study.

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Exercise_000-6

The UH BSCE program is accredited by ABET using EC 2000 criteria (essentially the same as the current document on your reading list). What is the lead society for program criterion for our department?

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Document History:

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