

CWR 4204 – HYDRAULIC ENGINEERING – SPRING 2023

Instructor: Professor Fuentes

Office: EC 3671 – Office Hours: M, W: 1:00-2:30PM

Assigned Study Material: Chapters 4 and 5

Homework Set No 3: (Each homework is graded over 100 points)

Required Problems:

4.1.1 (25 points),

4.1.2 (25 points), and

Analysis of Example 4.4* Using a Galvanized Iron Pipeline (50 points)

(***Hint for Example 4.4:** What would the answer be in Example 4.4, if you used a galvanized iron pipeline for which the manufacturer reports $e = 0.15 \text{ mm}$? Once solved, compare the difference between the answer of the textbook example and your answer using concrete). You are welcome to discuss any questions that you may have with the instructor in advance to Exam 1.

Due date: Friday, February 17, 2023 (but best if turned in with Exam No. 1).

Recommended Practice Problems: 4.1.1, 4.1.3, 4.1.6, 4.1.8, 4.2.5, 4.2.8, 4.3.3, 4.5.2, 4.6.1

(You are encouraged to practice solving these problems as team effort with your classmates)

Exam No. 1: Wednesday, February 15, 2023

Project Proposal: February 24, 2023 (See Project Addendum for details)

Exam No. 2: Monday, March 29, 2023