

**CWR 4204 – HYDRAULIC ENGINEERING – SPRING 2025**

**Instructor: Professor Fuentes**

**Office: EC 3671 – Office Hours: M: 10:00AM-2:00PM & W 12:00-2:00PM**

**Assigned Study Material:** Chapters 6, 8 and 11

**Homework Set No 5:**

***(Each homework is graded over 100 points; each question is worth the same number of points)***

**Required Problems:**

**6.2.7 (solve this problem for a longitudinal slope of 0.0032);**

**6.3.3 (solve this problem for  $n = 0.015$ );**

**6.4.3 (solve this problem for a uniform depth of 1.0 m);**

**Refer to Example 6.8, p. 219: solve for a discharge of 20 m<sup>3</sup>/s and compare with text results;**

**Refer to Example 6.11, page 237: solve for  $Q = 12$  m<sup>3</sup>/s and compare with text result.**

***(As an alternative to hand calculations, you may consider using FlowMaster, which is software that is available at most of our EIC Computer Labs; or you may solve it in MSExcels spreadsheets).***

**Due date: Thursday, April 3, 2025, or earlier**

***(Drop off the assignment in the instructor's mailbox or slide it in under EC-3671 office's door)***

**Recommended Practice Problems: 6.1.1., 6.1.2, 6.2.1, 6.3.1, 6.3.5, 6.4.2, 6.4.7, 6.5.1, 6.5.4, 6.9.2, 6.9.3 and any others of your choice related to assigned Chapter 8 sections.**

**Written Project Report: Due Friday, April 18, 2025**

**Oral Presentation: Monday, April 21, 2025 (See Project Addendum)**