

Fall 2020

CE 621-851: Hydrology

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CE 621 - Hydrology**Fall 2020**

Text:

Hydrology and Floodplain Analysis by Bedient, Huber, and Vieux. 5th edition.

Pearson/Prentice Hall. 2013.

ISBN-13:978-0-273-77427-3

ISBN-10: 0-273-77427-1

Instructor:

Professor Y. Ding, Room 264 Colton Hall, ding@njit.edu, Phone#: 973-642-7046

Prerequisite: undergraduate fluid mechanics. The statistical nature of precipitation and runoff data are considered with emphasis on floods and droughts. The flow of groundwater is analyzed for various aquifers and conditions. Flood routing, watershed yield, and drainage problems are considered.

Week	Sections	Topics
1	1.1-1.6	Hydrologic Cycle and Weather
2	1.7-1.9	Hydrologic Losses
3	2.1-2.5	Hydrologic Analysis
4	2.6-2.8	Hydrologic Analysis
5	3.1-3.4	Frequency Analysis
6	3.5-3.8 Exam-1	Frequency Analysis
7	4.1-4.3	Flood Routing
8	4.4-4.7	Flood Routing
9	6.1-6.6	Urban Hydrology
10	7.1-7.4	Floodplain Hydraulics
11	7.5-7.8	Floodplain Hydraulics
12	Exam-2	
13	8.1-8.4	Groundwater Hydrology
14	8.5-8.10	Groundwater Hydrology
15	Final Exam	

GRADING:

HW 20 points

Exam 1 30 points

Exam 2 30 points

Final exam 2 20 points

The grade scheduling:

A = 90 to 100 C = 70 to 74

B+ = 85 to 89 D = 60 to 69

B = 80 to 84 F = 59 or less

C+ = 75 to 79

W = Voluntary before deadline (school schedule)

EXAMs:

Generally, calculator is need for all exams. No other electronic device, storage medium, or accessory of any kind, is allowed during any exam.

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