

## **ENGR 441 Hydrology for Engineers Assignments**

### **Assignment 1**

Select one of the course topics areas listed in the introduction lecture. Find one published journal article or conference paper on that topic and reflect through writing a one-page summary. The purpose of this assignment is for you to become familiar with hydrological practices in the field of civil engineering. The page should be double spaced, using times new roman 12 point font.

### **Assignment 2**

Write a one page summary of one of the Federal Regulations discussed in the system planning lecture. Describe the impact the regulation has had on hydrology projects and how the regulation you selected is important for protecting the environment. The purpose of this assignment is to get you familiar with laws impacted hydrological designs. The page should be double spaced, using times new roman 12 point font.

### **Assignment 3**

Visit the NOAA website and explore Precipitation Frequency Data Graphs per state. Obtain precipitation frequency graphs for two states of your choosing and discuss the differences in precipitation depths vs. average recurrence interval in years. You should submit your graphs and your discussion of the two locations. <https://hdsc.nws.noaa.gov/hdsc/pfds/>

### **Assignment 4**

Develop a hydrograph using data obtained from the NOAA website for Terre Haute, using methods learned in class.