HYDROLOGY — CIVL 1256

A. Course Description
   - Credits: 1.00
   - Lecture Hours/Week: 1.00
   - Lab Hours/Week: 0.00
   - OJT Hours/Week: 0
   - Prerequisites: None
   - Corequisites: None
   - MnTC Goals: None

This course is an introduction to storm water management as it relates to the design of storm water conveyance systems, and ponds using various engineering tools. Students will learn calculating runoff, pipe design and sizing.

B. Course Effective Dates: 12/16/19 – Present

C. Outline of Major Content Areas
   - As noted on course syllabus

D. Learning Outcomes
   1. Detention design
   2. Hydraulics and hydrology in engineering
   3. Culvert design
   4. Culvert hydraulics
   5. Develop the ability to analyze spatial and tabular data and apply problem solving skills to engineering applications
   6. Fluid mechanics, hydrostatics, and hydrodynamics
   7. Fundamental hydrology
   8. Hydraulic devices
   9. Learn how to operate GIS software and utilize all data types
   10. Open channel hydraulics

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

F. Learner Outcomes Assessment
   - As noted on course syllabus
G. Special Information

None noted