Class 6 – HEC-RAS

Reading: HEC-RAS User's Manual

a. Lab – example in class. Steady and unsteady flows.

b. Structures: weirs, culverts, bridges, and detention basins.

c. Group design project 1. Given – a river geometry (set of cross sections) and unsteady flow hydrograph that overflows into developed areas. Design a system that prevents flooding of the developed areas. This can include channel and/or retention basin modification. Mind bridge locations and clearance under bridges (or redesign bridges). Minimize channel paving for habitat purposes.