

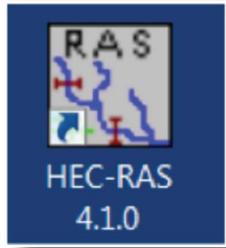


HEC-RAS

This course provides an overview of HEC-RAS modeling capabilities and shows each attendee how to use the model as a permitting/evaluation tool in flooding investigations. The course covers the most common uses of HEC-RAS, such as water surface profiles, floodplain delineation, and the effects of bridges and culverts in the floodplain. Hands-on exercises allow participants to enter/edit flow and geometric data, perform flow simulations, develop water surface profiles, and generate reports and graphics.

Duration: 3 days

Course Code: HER



TOPICS COVERED

- ▼ Introduction to Open Channel Hydraulics and Flooding, and HEC-RAS Overview
- ▼ Basic Steps in Developing a Hydraulic Model Using HEC-RAS
 - ◇ *Starting a new project*
 - ◇ *Entering geometric data*
 - ◇ *Entering steady flow data and boundary conditions*
 - ◇ *Perform calculations*
 - ◇ *View and print results*
- ▼ Water Surface Profile Simulation with Bridges and Culverts
- ▼ Stable Channel Design
- ▼ Floodplain Encroachment Analysis Using HEC-RAS
- ▼ Floodplain Mapping
- ▼ Importing GIS Data into HEC-RAS
- ▼ Others

COURSE PRE-REQUISITES: Undergraduate degree (or equivalent experience) and basic computer skills are highly recommended. **Class size limited to 12-17 students, depending on location.**