

# Fundamentals of Stormwater Design

Learn how to meet your stormwater management goals and objectives

**Nov. 10-11, 2022**

**McKimmon Conference and Training Center, NC State University, Raleigh, NC**

## Why You Should Attend

You will learn the fundamentals of on-site storm drainage applications to solve the problems not fully addressed in texts or regulations. You also will become familiar with efficient development of systems to accomplish comprehensive stormwater management goals.

*Fundamentals of Stormwater Design* is an effective continuation of the renowned stormwater course developed and popularized by the late **Dr. Rooney Malcom, P.E.**, professor emeritus of civil engineering at NC State University. Dr. Malcom and Everette Knight collaborated on the course for many years and Dr. Malcom's vision of "back to basics" stormwater planning and design has been shared with thousands of stormwater professionals throughout the United States.

## Attend and You Will Receive

- 15.0 Professional Development Hours (PDHs)
- 15.0 Learning Units (LUs) for the American Institute of Architects; Approved for AIA-CES Health, Safety or Welfare credit
- 8.0 CE Hours by the NC Board of Landscape Architects

## Meet Your Instructor

**Everette Knight, P.E.**, works in the mid-Atlantic region Water Resources Group of Hazen and Sawyer, a nationally recognized environmental engineering and consulting firm specializing in water, wastewater, and stormwater management services. He attended NC State University where he received a B.S. and an M.S. in civil engineering. His post-graduate studies concentrated on stormwater management and geotechnical engineering.

- A stormwater manual and supporting materials that are widely used by design professionals in the region for preliminary and sometimes final system configuration
- A Certificate of Attendance
- Two networking luncheons and breaks

## Attend and You Will Learn

- Hydrologic analysis for desktop and spreadsheet
- Peak flow estimation
- Hydrograph formulation
- Data collection and evaluation
- Comparison of estimating methods with a watershed modeling program
- Issues of precision in analysis
- Selection of design storms
- Stormwater systems in small watersheds
- Conventional design of stormwater collection systems
- Channels
- Culverts
- Conventional design of stormwater detention facilities
- Comparison of desktop analysis and watershed models
- Effectiveness of detention in mitigating peaks

Mr. Knight has 40 years of experience in stormwater management, including 10 years consulting and teaching with the late Dr. Rooney Malcom. Mr. Knight's expertise has specifically been directed to water resources and includes the design of stormwater management infrastructure and dam safety related facilities. Application of the design tools and design examples from current projects will be presented in the course.

## Registration Fee

**\$675** per person

**Class size is limited to 40 participants.**

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# Register Today!

Go to [go.ncsu.edu/stormwater](http://go.ncsu.edu/stormwater) or email [ContinuingEducation@ncsu.edu](mailto:ContinuingEducation@ncsu.edu) for more information.

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