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Dr. Clarke is an associate professor in the Department of Biological Sciences at Winston-Salem State University. His teaching is informed by pedagogic research on STEM students funded by the National Science Foundation. He collaborates with educational counselors and cognitive psychologists at the Ohio State University and Clemson University to understand the factors affecting the persistence, self-efficacy, and academic success of HBCU students in STEM and non-STEM disciplines.

Before joining WSSU, Dr. Clarke was a research associate professor in the School of Pharmacy at UNC-Chapel Hill where he conducted research in drug disposition via CYP450-mediated pathways utilizing LCMS bioanalytical techniques. Prior to working at UNC School of Pharmacy in 1999, Dr. Clarke spent 16 years working in the pharmaceutical industry as a senior scientist in drug discovery and development at Burroughs Wellcome Co.

Dr. Clarke served on the Piedmont Triad Biotechnology Advisory Committee and chaired their executive council.

Dr. Clarke was awarded the BS in Chemistry in 1974 from NC Agricultural and Technical State University and subsequently the Ph.D. in Pharmacology in 1981 from UNC-Chapel Hill.