ERVIN M. HOWARD, PhD

Instructional Designer & Quality Matters Coordinator (QMC)/Professional Development Coordinator

Learning Experience Design • Online & Hybrid Learning • AI in Learning • Faculty Development

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LinkedIn • EMH Portfolio

PROFESSIONAL PROFILE

Instructional design and learning technology professional with extensive experience designing, developing, teaching, reviewing, and supporting online, hybrid, and self-paced learning across higher education, K–12, STEM education, and professional development. Experience includes Quality Matters course review and facilitation, faculty development, multimedia learning, AI integration in teaching and learning, curriculum development, and technology-enhanced STEM education. Doctoral specialization in Instructional Design for Online Learning.

CORE EXPERTISE

Instructional Design & LXD Online/hybrid course design; learner-centered pedagogy; course conversion; self-paced learning	**Quality & Faculty Development** Quality Matters; APPQMR; course reviews; faculty workshops; professional development	**AI in Learning** Generative AI in education; AI integration; AI-focused faculty learning; digital learning resources
Digital Learning Multimedia; D2L Brightspace; Blackboard; Canvas; Harmonize; video/web resources	**STEM & Teacher Education** NASA education; GLOBE; climate education; GPS/GIS; preservice teacher learning	**Research & Evaluation** Cognitive load; online learning; learning technology; course/documentation reviews

PROFESSIONAL EXPERIENCE

Instructional Designer & Quality Matters Coordinator / Professional Development Coordinator | 2019–Present

University of North Georgia (UNG), Distance Education & Technology Integration — Watkinsville, GA

- Design and support multimedia-based teaching strategies for online and hybrid instruction.
- Lead course design orientations, Quality Matters reviews, and faculty development activities; support APPQMR workshops.
- Create and facilitate professional development workshops, including AI in Learning certification and self-paced learning resources.
- Mentor faculty in applying instructional design principles to online pedagogy, course conversion, and digital learning.
- Support the DETI Webinar Series and create media for workshop/webinar announcements and social media.

High School Mathematics Teacher | 2018–2019

Pasquotank County High School — Elizabeth City, NC

- Taught Foundations in Mathematics, Algebra I, and Algebra II.
- Established online Canvas course shells with review content, customized instructor-led video lessons, and assignment submission.
- Created the Panther Math website with instructional video demonstrations.

Instructional Designer / Education Lead | 2016–2017

Norfolk State University — Norfolk, VA

- Led instructional design for online programs and master course templates.
- Developed faculty training, certification programs, and policy guidance; supervised staff and monitored distance-education project budgets.
- Conducted design reviews, maintained course-development documentation, and served as the university's quality assurance coordinator.

Adjunct Faculty, Continuing Educational Specialist | 2006–2020

University of North Carolina at Chapel Hill — Chapel Hill, NC

- Designed and taught self-paced C++ and Pre-Calculus courses in distance and online modalities.
- Courses: SPC CSC 115 Computer Science and SPC GE 118 Pre-Calculus.

Faculty Roles | 2001–2014

Elizabeth City State University — Elizabeth City, NC

- Taught Instructional Technology, Algebra, Pre-Calculus, Math Praxis, and Early Field Experience in blended and online formats.
- Participated in NCATE/CAEP accreditation and academic committees; developed multimedia content using Blackboard and YouTube integrations.

Technology Assistant / DOT Intern | 1993–2002

Elizabeth City Middle School — Elizabeth City, NC

- Provided technical support, network administration, and multimedia training for K–12 faculty.
- Facilitated live broadcast operations and T-1 internet systems.

Product Support Representative | 1995–1999

Canon Computer Systems, Inc. — —

- Delivered tier-2 technical support and hardware/software troubleshooting.
- Contributed to Oracle-based customer-service data entry and issue resolution.

SELECTED RESEARCH, STEM & NASA COLLABORATIONS

Center for Remote Sensing of Ice Sheets (CReSIS) — Elizabeth City State University — 2014
Participated in multidisciplinary climate and remote-sensing research; completed GPS/GIS training. Archive

NASA Innovations in Climate Education (NASA-NICE) — Elizabeth City State University — 2012–2016
Developed K–2 climate-change lesson plans using the Technology Integration Planning (TIP) Model. Archive

NASA-NICE / ESTEEM — Elizabeth City State University
Participated in NASA-supported STEM and climate education activities. Archive

STEM Integration Activities — EDUC 203 — Elizabeth City State University
Designed STEM integration activities for EDUC 203: Introduction to Computer Instructional Technology. Archive

GPS Workshop for Preservice Teachers — Elizabeth City State University
Facilitated a GPS workshop to enhance climate education with NASA Earth data. Archive

GLOBE (Global Learning and Observations to Benefit the Environment) — Elizabeth City State University — 2002–2003
Received training in GLOBE Hydrology Protocols and led pilot GLOBE activities at local middle and high schools. Archive

GLOBE 2002 Summer Program — Elizabeth City State University
Participated in the GLOBE summer program and environmental-science learning activities. Archive

Hydrology Water Trainer / URE OMS — Elizabeth City State University — 2004–2006
Supported hydrology and atmospheric training activities, including Hydrology Water Trainer resources. Archive

Research in Climate Change with NASA Grant — Elizabeth City State University
Participated in NASA-supported climate-change research and workshop activities. Archive

GLOBE pilot activity archives: Archive 1 • Archive 2 • Archive 3

EDUCATION

Doctor of Philosophy in Education — Instructional Design for Online Learning
Capella University, Minneapolis, MN — June 2014
Dissertation: Understanding Undergraduate College Students' Perceptions About Using Cognitive Load Strategies in Solving Exponential Expressions

Master of Arts in Education — Instructional Technology–Computers
East Carolina University, Greenville, NC — May 2002

Certification Requirements in Mathematics Teaching
Elizabeth City State University, Elizabeth City, NC — May 1993

Bachelor of Science in Computer Science — Computer & Information Science
Elizabeth City State University, Elizabeth City, NC — May 1988

PUBLICATIONS

Babb, D., & Howard, E. (2022). FLOC, Facilitating Learning Online Certification Workshop. The Online Journal of Distance Learning Administration, 24(4), 1–7. Article

Babb, D., & Howard, E. (2023). Explore UNG's Self-paced Professional Development Workshops. The Online Journal of Distance Learning Administration, 25(1), 1–12. Article

Howard, E. (2006). GE 118 Pre-Calculus Self-Paced Course Manual. University of North Carolina.

Best Paper Award — The Online Journal of Distance Learning Administration.

TEACHING & LEARNING EXPERIENCE

- Courses taught: Computer Science, Algebra, Pre-Calculus, and Instructional Technology.
- Online teaching using Blackboard and Canvas; curriculum development for self-paced and hybrid courses.
- AI integration workshops in online teaching and self-paced course development.
- Faculty training in iPad and Second Life technologies.

CERTIFICATIONS, PROFESSIONAL SERVICE & PRESENTATIONS

- Quality Matters certifications: Facilitator, Coordinator, Reviewer, and Course Design.
- Project Management Certification — University of Adelaide, 2018.
- Accessibility webinars — Great Lakes ADA Center.
- North Carolina State Board License — Instructional Technology & Mathematics (K–12).
- Peer Reviewer: The Online Journal of Distance Learning Administration; Journal of Educators Online.
- Professional affiliations: AECT, AGU, Geological Society of America, Kappa Delta Pi.
- Committee involvement: NCATE/CAEP Technology, Faculty Governance, Hearing Committee, SACS Undergraduate Committee.
- NASA PSTC Conference, Alexandria, VA — Hydrology Protocols (2003).
- Frink, K., Crocker, S., Jones III, W., Marshall, S. S., Anuradha, D., Stewart-Gurley, K., Howard, E. M., & Merriweather, E. (2013, December). *NASA Nice Climate Change Education: Best Practice for Incorporating Climate Change Pedagogy* [Poster presentation]. American Geophysical Union Fall Meeting 2013, San Francisco, CA. Bibcode: 2013AGUFMED33C0786F.