

Cally Nielson, MEd, MLS

Learning Experience Design | Information and Knowledge Development

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PROFESSIONAL SUMMARY

Learning and development strategist with 10+ years of experience designing curriculum, digital learning experiences, assessments, performance-support resources, and learner-centered instruction across K–12, higher education, medical education, and healthcare environments. Holds dual master's degrees in Instructional Design and Library Science, combining expertise in learning science, information science, metacognition, self-regulated learning, and evidence-based instructional design. Graduate study focused on metacognitive instructional strategies, and how people organize, connect, evaluate, and build knowledge, providing an interdisciplinary foundation for designing effective learning experiences, information resources, and knowledge systems. Experienced partnering with faculty, subject-matter experts, and cross-functional teams to analyze learning needs, synthesize and translate complex information, develop multimedia and e-learning, and evaluate learner outcomes. Skilled at managing multiple initiatives and creating clear, accessible learning experiences and content that help people understand, navigate, and apply information effectively.

CORE COMPETENCIES

Learning & Learning Science:

Learning Science • Learning Experience Design • Adult Learning • Metacognition • Self-Regulated Learning • Curriculum Development • Instructional Design • Needs Analysis • Assessment Design • Universal Design for Learning

Information, Research & Knowledge:

Information Science • Information Literacy • Knowledge Organization • Knowledge Development • Content Research • Research Translation • Technical Writing • Educational Content Development

Program, Project & Digital Learning:

Project Management • Stakeholder Communication • Faculty & SME Collaboration • Cross-Functional Collaboration • Multimedia & Interactive Learning • Performance Support • Articulate Storyline 360 • Canvas LMS • SharePoint

AI & Emerging Learning Technologies:

AI-Assisted Course Design & Outlining • AI-Assisted Content Development • Video Generation • Multimedia Production • Software-Integrated AI Tools • AI Workflow Integration

PROFESSIONAL EXPERIENCE

Learning Specialist (Medical Education)

Noorda College of Osteopathic Medicine | Aug 2025 – Sept 2026

- Designed evidence-based learning resources and performance-support materials that helped medical students apply more effective study, reflection, and self-regulated learning strategies.
- Analyzed learner performance, study behaviors, learning histories, and feedback to identify barriers to learning and develop targeted interventions aligned with individual student needs.
- Across over 400 interviews, coached students through challenging academic and behavioral situations, helping them identify patterns, build self-awareness, and develop effective learning strategies.

- Translated learning-science principles into practical resources and interventions addressing metacognition, study strategies, resilience, and academic performance.
- Partnered with faculty and subject-matter experts to identify learning needs, evaluate resources, and improve academic support for medical students.
- Developed digital learning resources, documentation, procedures, and SOPs that strengthened consistency and accessibility of learner support across multiple platforms and services.

Instructional Lead & English Language Arts Educator
Alpine School District | Jun 2016 – Aug 2025

- Designed and developed curriculum, e-learning, blended learning, assessments, multimedia instruction, and performance-support resources that improved access to learning and supported student achievement across varied instructional settings, serving over 200 students per year.
- Led a 12-member instructional team through a rapid transition to online learning, coordinating priorities, resources, and shared processes to maintain continuity and consistency across multiple courses.
- Built and scaled a high-school transition program designed to reduce ninth-grade course failures and dropout risk, training senior mentors to deliver instructional activities, build peer connections, and connect incoming students with academic and school supports; expanded the program to serve approximately 800 students.
- Converted classroom instruction into asynchronous and multimedia learning experiences, expanding access to instruction while adapting content for varied learner needs, technologies, and delivery formats.
- Built and launched a comprehensive ELL program, serving over 60 students and families, from the ground up, creating curriculum and support systems that connected language development with academic success, college readiness, and student access to community resources.
- Built assessment and progress-monitoring systems that turned learner performance data into actionable insights, helping identify learning gaps, target instruction, and track student growth.
- Partnered with special education teams and instructional colleagues to remove barriers to learning, adapt instruction, and create more accessible experiences for students with diverse learning needs.
- Designed learning experiences that strengthened metacognition, critical thinking, learner autonomy, and self-directed learning by making learning strategies and decision-making more explicit to students.
- Translated complex academic concepts into clear, engaging instructional materials that made challenging content accessible to learners with diverse backgrounds, abilities, and levels of experience.
- Mentored student teachers and onboarded instructional staff through coaching, collaborative planning, instructional modeling, and resource development, supporting more consistent instructional practice across teams.

EDUCATION

Emporia State University

Master of Library Science (MLS) | 2025 | GPA: 3.9

Western Governors University

M.S.Ed., Instructional Design | 2021

Utah Valley University

B.A., English Education | 2017 | GPA: 3.9

CERTIFICATIONS

ALA-Accredited Master of Library Science Utah Professional Educator License edTPA Certification