

Sample Learning Activities: Instructional Technology

Activity Title	Learning Objective(s) Addressed	Description / Instructions	Suggested Deliverable / Assessment
UDL & DAP Technology Lesson Redesign Challenge	Analyze and apply instructional technology frameworks (UDL + Developmentally Appropriate Practice) to create inclusive learning experiences	Students are given a traditional early childhood lesson (e.g., shared reading, counting activity, social-emotional routine). They must redesign the lesson using UDL principles (multiple means of engagement, representation, and action/expression) and developmentally appropriate practices, integrating at least 2 instructional technologies. Students must demonstrate accessibility for children with diverse disabilities (sensory, cognitive, motor, communication).	Redesigned lesson plan with UDL mapping chart showing how each UDL principle and DAP guideline is met + short reflection on inclusion and access.
AI in Action: Assessment & Planning Tool Evaluation Lab	Evaluate and integrate AI tools for formative & summative assessment, lesson planning, and family engagement	In small groups, students test TeachFX, ToddlerTalk, and MagicSchool.ai using structured prompts: analyze how each tool supports (a) assessment, (b) instructional planning, and (c) family communication. Students examine accuracy, usability, bias risk, developmental appropriateness, and accessibility for EI/ECSE settings.	Comparative evaluation matrix + group presentation recommending which tool(s) are most appropriate for EI vs ECSE and why.
Ethics, Equity & AI Roundtable Simulation	Critically examine ethical, cultural, and practical considerations (privacy, bias, accessibility, equity)	Students participate in a structured role-play roundtable where each takes on a stakeholder role (family member, EI provider, administrator, data privacy officer, culturally diverse	Written ethics brief identifying risks, protections, equity safeguards, and implementation guidelines for

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		caregiver). Using an AI-supported assessment scenario, they debate issues of data privacy, algorithmic bias, linguistic accessibility, consent, surveillance concerns, and equitable implementation.	responsible tech use in EI/ECSE.
Digital IFSP/IEP Routine-Based Intervention Design Studio	Design a technology-enhanced intervention plan that embeds IFSP/IEP outcomes into daily routines	Students select a mock IFSP/IEP with 2–3 functional outcomes. They design a technology-enhanced intervention plan embedded into natural routines (mealtime, play, dressing, transitions). Plans must integrate digital tools for modeling, prompting, data tracking, and caregiver coaching.	Technology-embedded routine-based intervention plan with: target outcomes, routines, digital tools used, caregiver support strategy, and progress-monitoring approach.
Family–Provider Digital Collaboration Plan	Design effective collaboration with families using digital tools for intervention and coaching	Students design a family engagement system using digital tools (secure video sharing, messaging platforms, digital coaching apps, AI drafting tools). They must address multilingual access, caregiver digital literacy, cultural responsiveness, and privacy protections while supporting IFSP/IEP implementation at home.	Family digital collaboration toolkit: communication plan, coaching workflow, sample message scripts, privacy safeguards, and accessibility features.