ECW 4014: Reimagining Assessments to Maximize Student Potential
Credit Hours: Three (3)

Course Description
The course will explore the interconnected relationship between lesson planning, assessment, feedback, and classroom management while maintaining pedagogical integrity. The student will develop reflective, inclusive, and ethical practices that support differentiated instruction, student engagement, and responsible AI use across diverse learning environments.

Course Competencies
Upon completion of this course, the teacher candidate will demonstrate theoretical and pedagogical knowledge by:

Competency 1: Developing assessment strategies that appropriately incorporate AI tools that are instructionally-sound while maintaining academic integrity by:

1. Designing, adapting, and evaluating AI-enhanced assessments and lesson plans using principles of backward design, ensuring alignment with curriculum standards, and learning outcomes to support personalized learning, student engagement, and instructional coherence
2. Creating balanced assessment plans that integrate AI-assisted and traditional evaluation methods to provide a comprehensive, human-centered view of student learning
3. Designing AI-enhanced rubrics and assessments that emphasize critical and design thinking, iterative process, and growth
4. Implementing AI-powered formative and summative assessments that provide real-time insights to inform instruction and track individual progress
5. Analyzing the role of confirmative assessment in continuous improvement
6. Using AI tools with a human-centered lens to interpret resulting qualitative and quantitative data for long-term instructional effectiveness

Competency 2: Differentiating learning experiences to design inclusive, adaptive instruction using AI tools to meet diverse student needs by:

1. Creating lesson plans that leverage AI tools to differentiate content, process, and product based on student readiness, interests, and learning profiles (including students with disabilities, language barriers, or learning differences)
2. Utilizing AI tools to scaffold and tailor assessment, instruction, and learning experiences to provide multiple entry points for content mastery Implementing universal design for learning (UDL) principles when integrating AI tools to

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promote access, engagement, and expression for all learners (e.g., translation, text-to-speech, speech-to-text)

3. Facilitating student choice in AI tools use to support their learning goals and preferences
4. Evaluating the reliability, validity, and bias of AI-driven assessment tools
5. Analyzing AI-generated data to inform real-time instructional decisions and personalize learning pathways, including the identification of learning patterns, misconceptions, and opportunities for targeted intervention
6. Reflecting on AI tools as potential partners in improving creativity, differentiation, engagement, and responsiveness in teaching

Competency 3: Effectively integrating AI tools to enhance the classroom management plan, while maintaining a healthy balance between AI-supported classroom oversight and student autonomy by:

1. Developing ethical transparent policies and protocols for students, families, and stakeholders on the purposeful and responsible use of AI tools to support productive learning environments
2. Planning for and enacting classroom scenarios to address potential challenges with AI use, including misuse (e.g., academic dishonesty, distractions, or overreliance on AI-generated content in student submissions)
3. Implementing AI-driven tools to monitor student engagement and growth to enhance learning experience and streamline classroom routines
4. Adapting AI-supported management strategies to meet diverse student needs and learning styles

Competency 4: Leveraging AI for data analysis, visualization, and storytelling by:
1. Configuring AI dashboards or agents to aggregate formative data (quiz scores, discussion metrics, time-on-task) and designing adaptive surveys or chatbots
2. Applying low-code AI analytics tools to detect patterns, outliers, and growth trajectories in student performance and engagement data
3. Using AI chart-generation tools to transform raw datasets into clear visuals
4. Creating a concise "data story" artifact (infographic, narrated slide deck, or interactive dashboard) that communicates key findings and instructional implications to peers, parents, colleagues, or administrators
5. Applying privacy-by-design principles (e.g., anonymization, secure data handling) when collecting and sharing student data via AI tools