Syllabus – JavaScript & xAPI for Interactive eLearning

Course Title & Description

This minicourse introduces learners to JavaScript fundamentals and the Experience API (xAPI), empowering instructional designers and eLearning developers to create interactive, data-rich learning experiences. Through hands-on coding, peer discussion, and applied projects, learners will gain the skills to manipulate web content dynamically, capture learner interactions, and connect their projects to a Learning Record Store (LRS).

Course Learning Outcomes

1. Apply core JavaScript concepts (variables, functions, conditionals, loops) to eLearning design.
2. Manipulate the Document Object Model (DOM) to create interactive learner experiences.
3. Construct valid xAPI statements that capture learning activities.
4. Integrate JavaScript and xAPI into sample eLearning interactions.
5. Collaborate with peers to analyze and reflect on the role of code in instructional design.

Instructor Contact

Instructor: Jonathan Root
Email: [Insert instructor email here]
Office Hours: By appointment (via Zoom or Canvas Messages).

Course Prerequisites

Basic familiarity with HTML/CSS. No prior programming experience required.

Technology Requirements

A modern web browser (Chrome, Firefox, or Edge). Reliable internet connection. A Canvas account (provided by course). Optional: A free code editor such as Visual Studio Code.

Grading Policy & Grade Scale

See table below.

Late Policies

Assignments submitted up to 3 days late will be penalized 10% per day. Discussions must be posted by deadlines to receive credit for peer engagement. Extensions may be granted for emergencies with prior instructor approval.

Schedule of Instructional Events

Module 1 – JavaScript Basics: Intro to variables, operators, functions; Knowledge check quiz; Discussion.

Module 2 – DOM Manipulation: DOM tasks; Assignment.

Module 3 – Writing xAPI Statements: Structure/syntax; Discussion; Assignment.

Module 4 – Integration & Reflection: Combine DOM + xAPI; Final reflections.

Academic Honesty & Integrity Policy

All submitted work must be original. Plagiarism, unauthorized collaboration, or falsification of data will result in no credit for the assignment and may be reported according to institutional policy. Use of AI tools must be cited when applicable.

Accommodations for Students with Disabilities

Learners with documented disabilities are encouraged to connect with the instructor as early as possible to arrange reasonable accommodations. All activities and assessments can be adjusted to ensure accessibility, including alternate formats, extended time, or captioned/transcribed materials.

PDF Version

This syllabus is provided as a PDF version available on the course homepage in Canvas for easy download.

Category	Weight
Discussions (2)	25%
Assignments (1 major)	35%
Knowledge Checks/Quizzes	20%
Participation & Engagement	20%