Elective Course Description

Course Name	AI: Iterative Learning 101
Course Number	TBD
Length of Course	One Semester
Grade Level	7-12
Credit Type	0.5 Elective Per Semester
Grading Scale	A-F
Course Prerequisite	N/A
Course Summary	AI: Iterative Learning 101 is a course focused on a digital learning adventure that utilizes technology and champions continuous iteration, progress review, and self-reflection. Integrating VR/AR tools to help highlight the different new technologies changing human innovation. This course will be available as a district resource and added to as we model this continuous iteration and review for our students. By promoting diversity and inclusivity and introducing students to an ideology that stems from the culture of technological organizations. The class emphasizes appropriate and respectful content generation, respect for intellectual property, diversity promotion, and contextual awareness. It also encourages open discussions about AI ethics and transparency about AI limitations. This course will be offered asynchronously with weekly synchronous discussions; the intent is for it to be in modular format for ease of future use and adjustment.

Primary Materials	Various technology tools both hardware and software.
Standards	*Week 1-4: Basics and VR/AR in Learning* **Alaska Standards:** Technology standards on understanding and using digital tools; Science standards on inquiry and exploration. TeachAI Alignment: Introduction to AI technologies (Technical Knowledge); understanding AI in everyday life (Practical Applications). *Week 5: Respectful Content Generation* **Alaska Standards:** English Language Arts standards on producing and distributing writing; Digital literacy standards. TeachAI Alignment: Ethics in AI content creation (Ethical Considerations). *Week 6: Diversity and Inclusivity in AI* **Alaska Standards:** Social studies standards on cultural understanding; Technology standards on digital citizenship. TeachAI Alignment: Promoting diversity in AI (Societal Impact). *Week 7: AI Ethics* **Alaska Standards:** Science standards on the ethical practice of science; Technology standards regarding the societal impacts of technology. TeachAI Alignment: Ethical implications and challenges in AI (Ethical Considerations). *Week 8: Transparency and AI Limitations* **Alaska Standards:** Technology standards on critical thinking and problem-solving. TeachAI Alignment: Discussing AI limitations and transparency (Technical Knowledge and Ethical Considerations). *Week 9: Contextual Awareness* **Alaska Standards:** Social studies standards on understanding societal changes and technological development. TeachAI Alignment: AI's role in various contexts (Practical Applications). *Week 10-15: Advanced Topics and Project Work*

	Alaska Standards: Comprehensive integration of science, technology, engineering, and math standards; project-based learning standards. TeachAI Alignment: Deepening understanding in AI (Technical Knowledge); applying AI in projects (Practical Applications). ***Final Week: Course Conclusion*** **Alaska Standards:** Standards for presentation skills; reflective and critical thinking. TeachAI Alignment: Reflecting on the future of AI and iterative learning (Societal Impact).
Assessment	**Course Conclusion** Topic: Final Presentations and Reflection (Data Collection and Correlation) Activities: Presentation of final projects; Course reflection Synchronous Discussion: Future of AI and iterative learning

Activities

Week 1	**Introduction:** Topic: Course Overview, AI and Iterative Learning Activities: Introduction to course tools (VR/AR); Establishing a community of respect and inclusivity Synchronous Discussion: Expectations and goals
Week 2	**Basics of AI and Iterative Learning:** Topic: Understanding AI fundamentals and the concept of iterative learning Activities: Introduction to AI Guidance for Schools Toolkit; Interactive VR/AR demonstrations Synchronous Discussion: AI in everyday life

Week 3	**LLM, SLM, and Stable Diffusion**
	Topic: Exploring VR/AR technologies in education
	Activities: Hands-on VR/AR activities; Creating simple VR/AR content Synchronous
	Discussion: Potential of VR/AR in learning
Week 4	**Continuous Iteration and Progress Review**
	Topic: Deep dive into iterative learning methodologies
	Activities: Self-reflection exercises; Progress tracking Synchronous
	Discussion: Sharing iterative learning experiences
Week 5	**Respectful Content Generation**
	Topic: Ethics in content creation and intellectual property
	Activities: Case studies; Group discussions
	Synchronous
	Discussion: Balancing creativity and responsibility
Week 6	**Diversity and Inclusivity in AI**
	Topic: Promoting diversity in AI development and usage
	Activities: Exploring diverse perspectives in AI; Guest speaker session Synchronous
	Discussion: Inclusivity in technology
Week 7	**AI Ethics**
	Topic: Understanding ethical implications of AI
	Activities: Debates; Ethical dilemma scenarios Synchronous
	Discussion: Ethical challenges in AI

Week 8	**Transparency and AI Limitations** Topic: Recognizing and discussing AI limitations and transparency Activities: Research presentations; Group discussions Synchronous Discussion: Trust and AI
Week 9	**Contextual Awareness** Topic: Contextual understanding in AI applications Activities: Interactive simulations; Scenario analysis Synchronous Discussion: AI's role in various contexts
Week 10	**Phoenix Project Review and Iterative Design** Topic: Review and Reflect Activities: Mid-semester project showcasing iterative learning Synchronous Discussion: Feedback and reflection
Week 11 - 15	**Advanced Topics and Project Work** Topic: Deepening understanding in specific AI areas (e.g., AI in healthcare, education, business) Activities: Individual or group projects; Ongoing iterative improvements Synchronous Discussions: Progress updates, problem-solving, feedback