UNIVERSITY OF LOUISIANA SYSTEM

# AI LITERACY MICROCREDENTIAL
# PLAYBOOK FOR FACULTY

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# AI Literacy Microcredential Playbook for Faculty

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# Introduction

Welcome to the AI Literacy Microcredential Playbook for Faculty. This playbook is designed to support educators in integrating AI literacy into their existing course curricula effectively.

Whether you choose to adopt the entire microcredential or select specific units that align with your course objectives, this guide provides comprehensive strategies to embed interactive activities and assignments that resonate with your subject matter. By integrating these units, you will help prepare your students to navigate and contribute to an AI-enhanced future.

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### How to Use This Playbook:

The purpose of this playbook is to provide an introduction to the AI Literacy Microcredential and offer suggestions for how to use the microcredential (in whole or part) to enhance your course. The playbook provides ideas for how to tailor the AI Literacy Microcredential to meet the specific needs of your students and course objectives. Later sections provide an overview of each unit in the microcredential, along with ideas for implementation and sample assignments for undergraduate and graduate-level coursework.

Start by selecting one or more units that align with your course's focus and objectives. Next, implement the suggested strategies by following the Implementation Ideas, which will help you seamlessly incorporate AI literacy topics into your teaching methods. Additionally, use the Assignment Ideas to create meaningful assessments that reinforce the learning and application of AI concepts. Finally, customize the suggested activities and assignments to best fit your disciplinary context and student level.

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### How to Access the AI Literacy Microcredential:

Students and faculty will be able to access the AI Literacy Microcredential in their campus' LMS dashboard.

Faculty and staff are encouraged to direct students to complete the microcredential within this centralized platform, allowing the university to monitor overall progress and usage. The units from the AI Literacy Microcredential should not to be copied or embedded directly into other courses, websites, or materials.

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**Encouraged Sequential Learning:**

Students should be encouraged to complete the units for the AI Literacy Microcredential in chronological order, beginning with Unit 1 and finishing with Unit 5. This sequencing is deliberate: it fosters critical thinking, ethical considerations, and basic digital literacy before exposing students to AI tools and their applications. Students will only receive a certificate of completion for the credential if they have completed all units.

When a student completes a unit, they will receive a digital badge as proof of completion for that unit. You may request that they submit the badge image or verification link as proof of completion for the units you assign.

# Module 1: Introduction to AI Literacy

### Objective:

Explore how technological innovations have historically been met with resistance and fear, and how society has adapted. Encourage students to draw parallels between historical advancements and current trends in AI.

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### Implementation Ideas:

1. Guest Lectures: Invite experts who can explain historical technological shifts and societal responses, drawing comparisons to AI today.
2. Historical Timeline Project: Have students develop a timeline showcasing major technological advancements, highlighting public reactions and societal impacts, culminating with the emergence of AI.
3. Interdisciplinary Projects: Pair students from different majors to explore how their respective fields responded to past innovations and predict AI's impact.
4. Case Studies: Incorporate real-world case studies where organizations successfully navigated technological resistance, providing a blueprint for AI integration.
5. Interactive Discussions: Facilitate class discussions on fears and misconceptions about new technologies, encouraging students to relate these to AI.

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### Assignment Ideas:

**Lower-Level Undergraduate (Freshman/Sophomore):**

- Research Paper (Humanities/Liberal Arts): Compare a historical technological advancement with the rise of AI, focusing on public reaction and societal impact.
- Presentation (Business/Social Sciences): Present a case study on how a company overcame fear or resistance to AI.
- Lab Reflection (Hard Sciences/Engineering): Reflect on how past innovations in your field were met with resistance and how AI is viewed similarly today.
- Discussion (Health Sciences): Participate in discussions on the adoption of new medical technologies, linking to AI.
- Reflective Journal (Education): Weekly reflections on AI's potential impact in education.

**Upper-Level Undergraduate (Junior/Senior):**

- Comparative Analysis (Humanities/Liberal Arts): Analyze three technological advancements across different societies and compare their acceptance with AI today.
- Group Project (Business/Social Sciences): Research companies that have integrated AI and discuss strategies for overcoming resistance.
- Industry Case Study (Hard Sciences/Engineering): Analyze a major technological advancement in your field and how AI might follow a similar path.
- Debate (Health Sciences): Debate AI's growing role in healthcare.
- Interview (Education): Interview teachers about their experience with technology and how AI might impact teaching.

**Graduate (Masters/Doctoral):**

- Thesis Chapter (Humanities/Liberal Arts): Write a chapter on the fear of technology, comparing historical perspectives to AI.
- Policy Paper (Business/Social Sciences): Develop a policy recommendation for overcoming resistance to AI in business or government.
- Research Study (Hard Sciences/Engineering): Conduct a study comparing historical resistance to technological innovation and contemporary attitudes toward AI.
- Action Research Project (Education): Examine teacher attitudes toward AI integration and propose solutions.

# Module 2: Ethical Use of Generative AI

### Objective:

Critically assess the ethical implications of AI, including privacy concerns, bias, decision-making autonomy, and societal impacts.

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### Implementation Ideas:

1. Ethics Lab: Organize labs where students work through real-world ethical dilemmas related to AI and propose solutions.
2. Debate and Discussion Groups: Form debate teams to tackle the pros and cons of AI in specific industries, focusing on ethical concerns.
3. Ethical Code Creation: Have students draft a code of ethics for AI use in their future professions, considering both industry standards and personal values.
4. Case Study Analysis: Integrate case studies that highlight ethical challenges in AI implementation across various fields.
5. Panel Discussions: Host panels with ethicists, industry professionals, and technologists to discuss the moral dimensions of AI.

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### Assignment Ideas:

**Lower-Level Undergraduate (Freshman/Sophomore):**

- Ethics Essay (Humanities/Liberal Arts): Write a 2-3 page essay on the ethical dilemmas surrounding AI in social media, focusing on data privacy and misinformation.
- Case Study Review (Business/Social Sciences): Analyze how a business faced ethical challenges using AI and what steps they took to address these issues.
- Ethical Scenarios (Health Sciences): Analyze scenarios where AI tools in diagnostics led to ethical debates. Discuss potential resolutions.
- Class Discussion (Education): Discuss ethical issues with AI in educational systems.

**Upper-Level Undergraduate (Junior/Senior):**

- Ethics Presentation (Humanities/Liberal Arts): Present on the moral dilemmas AI poses in creative fields, such as AI-generated art or literature.
- Group Debate (Business/Social Sciences): Debate the use of AI in hiring practices, focusing on ethical issues like bias and fairness.
- Position Paper (Hard Sciences/Engineering): Write a paper on the ethical responsibilities engineers face when designing AI for public use.
- Policy Review (Health Sciences): Draft a policy recommendation on AI and privacy in healthcare.
- Survey Project (Education): Conduct a survey on opinions of AI in educational assessments.

**Graduate (Masters/Doctoral):**

- White Paper (Humanities/Liberal Arts): Develop a white paper on global ethical guidelines for AI use, considering cultural perspectives.
- Research Study (Business/Social Sciences): Conduct a study on how businesses are addressing AI ethics in customer relations and data security.
- Ethical AI Proposal (Hard Sciences/Engineering): Create an ethical framework for AI development.
- Grant Proposal (Health Sciences): Write a grant proposal focused on researching ethical AI applications in patient care.
- Ethics Review (Education): Conduct an ethics review of AI in adaptive learning systems.

# Module 3: Digital Literacy and Data Privacy in AI

### Objective:

Provide foundational knowledge of digital literacy, including understanding key AI-related terms and concepts necessary for using AI tools effectively.

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### Implementation Ideas:

1. Critical Information Analysis Workshops – Conduct sessions where students evaluate online sources, recognize misinformation, and assess AI-generated content for bias and credibility.
2. Ethical AI Use Case Studies – Integrate real-world scenarios to explore ethical dilemmas in AI, including privacy concerns, algorithmic bias, and data ethics.
3. Fact-Checking and Misinformation Projects – Assign students to fact-check AI-generated claims, compare results across sources, and create reports on digital misinformation trends.
4. Digital Privacy Audits – Have students assess their own digital footprints and privacy settings, then apply these insights to evaluating organizational data security practices.
5. AI and Media Literacy Modules – Develop online learning materials covering AI-generated media, deepfakes, and how to discern manipulated content.

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### Assignment Ideas:

**Lower-Level Undergraduate (Freshman/Sophomore):**

- Source Evaluation (Humanities/Liberal Arts): Analyze AI-generated text versus human-written sources, identifying credibility markers and potential biases.
- AI Ethics Infographic (Business/Social Sciences): Design an infographic explaining how AI impacts consumer privacy and digital marketing ethics.
- Online Safety Reflection (Hard Sciences/Engineering): Complete a reflection on personal cybersecurity habits, data tracking, and AI-driven privacy concerns.
- Misinformation Detection Exercise (Health Sciences): Investigate AI-generated medical misinformation and propose strategies for responsible information-sharing.
- Digital Footprint Assessment (Education): Conduct a self-audit of online presence, analyze risks, and suggest privacy improvements for educators.

**Upper-Level Undergraduate (Junior/Senior):**

- Media Manipulation Report (Humanities/Liberal Arts): Examine AI-generated media, including deepfakes, and their implications for journalism and public trust.
- Corporate Privacy Audit (Business/Social Sciences): Evaluate a company's AI-driven data policies, assessing compliance with ethical and legal standards.
- Bias in AI Tools (Hard Sciences/Engineering): Analyze bias in AI decision-making systems, exploring how data selection affects outcomes.
- AI in Healthcare Ethics (Health Sciences): Research ethical concerns in AI-assisted healthcare diagnostics and propose responsible implementation practices.
- K-12 AI Literacy Lesson (Education): Develop a lesson plan teaching students how to critically assess AI-generated content and misinformation.

**Graduate (Masters/Doctoral):**

- AI and Democracy Research (Humanities/Liberal Arts): Conduct a study on AI's role in shaping public opinion, political discourse, and misinformation.
- Digital Policy White Paper (Business/Social Sciences): Write a policy recommendation on AI and data privacy regulations for a government or corporate entity.
- Ethical AI Framework Development (Hard Sciences/Engineering): Design a framework to mitigate bias and ensure ethical AI decision-making in a specific industry.
- Medical AI Transparency Report (Health Sciences): Assess the transparency and reliability of AI-driven healthcare predictions and propose standards for accountability.
- AI Curriculum Design (Education): Create a digital literacy curriculum that integrates AI ethics, media literacy, and online safety for K-12 or higher education.

# Module 4: Generative AI Tools and Use

### Objective:

Introduce students to practical AI tools and encourage hands-on exploration to understand AI's applications.

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### Implementation Ideas:

1. AI Tool Demonstrations: Incorporate live demonstrations of AI tools relevant to the discipline, showcasing their functionalities and applications.
2. Software Experimentation Sessions: Allocate class time for students to experiment with AI software and apply it to real-world problems.
3. App Review Projects: Assign projects where students review and assess AI applications, evaluating their effectiveness and potential impact in their field.
4. Interactive Presentations: Have students present on specific AI tools, explaining how they enhance or transform practices within their discipline.
5. Hands-On Workshops: Facilitate workshops where students can work collaboratively to solve problems using AI tools, fostering practical skills and teamwork.

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### Assignment Ideas:

**Lower-Level Undergraduate (Freshman/Sophomore):**

- AI Tool Demonstration (Humanities/Liberal Arts): Use an AI writing assistant and reflect on its benefits and limitations for essay writing.
- Presentation (Business/Social Sciences): Present on how an AI marketing tool improves digital marketing strategies.
- AI App Review (Health Sciences): Review an health-related AI app (e.g., a fitness tracker) and assess its potential impact on healthcare outcomes.
- Tool Exploration (Education): Explore an AI-driven classroom management tool and reflect on its use.

**Upper-Level Undergraduate (Junior/Senior):**

- Advanced Tool Project (Humanities/Liberal Arts): Utilize an AI tool for content analysis in literature or media studies and present findings.
- Business Strategy Report (Business/Social Sciences): Develop a report on integrating AI tools into a business's digital strategy.
- Engineering Application (Hard Sciences/Engineering): Apply an AI tool to a complex engineering problem and document the process and outcomes.
- Healthcare Innovation Proposal (Health Sciences): Propose an AI-based solution to improve patient care or healthcare administration.
- Educational Technology Integration (Education): Design a plan to integrate AI tools into a specific aspect of educational delivery (e.g., personalized learning).

**Graduate (Masters/Doctoral):**

- AI Tools Research Project (Humanities/Liberal Arts): Investigate the impact of AI tools on research methodologies in humanities disciplines.
- Comprehensive Tool Assessment (Business/Social Sciences): Conduct an in-depth assessment of multiple AI tools and evaluate their strategic benefits.
- Engineering Innovation Study (Hard Sciences/Engineering): Research and develop an innovative application of AI tools in your engineering specialty.
- Healthcare AI Implementation Plan (Health Sciences): Develop a detailed plan for implementing AI tools in a healthcare setting, addressing potential challenges and solutions.
- Curriculum Enhancement Project (Education): Create an advanced unit or course component that integrates AI tools into educational practices, complete with assessment strategies.

# Module 5: AI and Your Future

### Objective:

Encourage students and faculty to explore how AI is reshaping industries, the workforce, and job skills. The aim is to help students envision AI's role in their future careers and analyze the evolving skillsets necessary for thriving in an AI-enhanced world. Faculty will consider how AI intersects with their subject matter, shaping classroom discussions and practical assignments to address the future demands of their respective fields.

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### Implementation Ideas:

1. Panel Discussions: Host panels featuring industry professionals who can discuss AI's current and potential future impact on various fields.
2. Career Reflection Workshops: Facilitate workshops where students research AI trends in their chosen fields and reflect on necessary skills for future success.
3. Vision Board Sessions: Organize sessions for students to create vision boards that map out how AI might influence their career paths, including desired skills and tools.
4. Industry Analysis Projects: Assign projects where students analyze how AI is transforming specific industries, identifying both opportunities and challenges.
5. Interactive Seminars: Conduct seminars that explore the intersection of AI with different disciplines, encouraging students to think critically about AI's role in their future professions.
6. Hackathons and Innovation Challenges: Host hackathons or innovation challenges focused on developing AI-driven solutions relevant to various industries.
7. Skill Development Programs: Integrate programs aimed at developing skills that are increasingly important in an AI-driven workforce, such as data analysis, critical thinking, and adaptability.

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### Assignment Ideas:

**Lower-Level Undergraduate (Freshman/Sophomore):**

- Career Reflection (All Disciplines): Research the impact of AI in your future field. Reflect on how current AI trends are reshaping career opportunities and the skills necessary for success. Focus on both immediate changes and long-term impacts.

**Upper-Level Undergraduate (Junior/Senior):**

- Panel Discussion (All Disciplines): Participate in or host a panel discussion with professionals in your field discussing AI's current and potential future impact on industry practices. Incorporate a Q&A segment for students to ask questions related to job skills, emerging AI tools, and career growth.

**Graduate (Masters/Doctoral):**

- Vision Board (All Disciplines): Create a "future career vision board" where students visually map out how they expect AI to influence their professional trajectory. Encourage students to include specific AI tools, resources, and skills that will be relevant in their career development.
- Research Proposal (All Disciplines): Develop a research proposal exploring the future of work in your field, focusing on AI's role and the evolving skill requirements.
- Strategic Plan (All Disciplines): Create a strategic plan for adapting to AI-driven changes in your industry, outlining necessary skill development and organizational adjustments.

# FAQ

**1. Can I copy the units into my course?**
No. The units are hosted in the university's LMS shell. Faculty and staff should direct students to complete the credential within that environment, ensuring consistent tracking of progress and completion.

**2. Do students need to complete the units in a specific order?**
While students do not need to complete the units in order, the units are designed to build knowledge progressively. Starting with the history of technology and ethical considerations ensures students develop critical thinking skills and understand the implications of AI before moving into the technical aspects of AI tools and the future of work.

**3. How can I verify that my students have completed the units?**
Students will receive digital badges upon completing each unit. They can provide proof of completion by sharing the verified badge link or verified certificate, which can be integrated into your assignment requirements. Please remember that a badge image alone should not be taken as proof of completion. A verified badge or certificate will provide the student's name, issue date, and issuing organization.

**4. What if I want to include an assignment from Unit 4 or 5?**
We highly recommend requiring students to show that they have earned badges from Units 1, 2, and 3 before assigning work from the later units. This ensures they have the necessary foundational knowledge.

**5. Can students skip units or complete them out of order?**
If students are intending to be certified for the entire credential, they should complete the units in the designed order (1-5). This progression is crucial for developing a well-rounded understanding of AI literacy, from basic skills to more advanced applications.

**6. How do students access the microcredential in the LMS?**
Enrollment procedures will vary by campus. Check with your LMS administrator to see how students will enroll on your campus. Once enrolled, students will see the microcredential in their LMS course list and can begin working through the units at any time.

**7. Can students display their badges outside of the LMS?**
Yes, students are encouraged to showcase their badges on digital platforms such as LinkedIn, in digital portfolios, or on their resumes. Each instance of the microcredential includes instructions for sharing badges on LinkedIn.

**8. What if my student has already completed the microcredential or a similar course on their own?**
If a student has already completed the AI Literacy Microcredential, they can present their verified badge link or verified certificate as proof of completion. If a student has completed similar coursework or units independently, they should discuss this with you to determine if it meets the foundational knowledge requirements of your course. You may still require them to complete specific units or provide further evidence of competency. Please remember that a badge image alone should not be taken as proof of completion. A verified badge or certificate will provide the student's name, issue date, and issuing organization.

# Acknowledgments

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