



Academic Integrity in the Generative AI Era

Considerations for Educators

Introduction.

The rapid evolution of AI tools marks a pivotal time in education. As these technologies become as common as calculators once were, educators are grappling with a fundamental question: How do we assess learning when students can generate polished essays, code, and presentations with a few keystrokes? The answer isn't to ban AI or pretend it doesn't exist. Instead, forward-thinking educators are discovering that this challenge is actually an opportunity to build better, more meaningful ways to evaluate student learning.

The proliferation of artificial intelligence (AI) tools has prompted a significant reevaluation of traditional educational paradigms (cf. Sebastien, 2025). Initially, concerns regarding plagiarism and the erosion of academic integrity dominated discussions (Aziz, 2023; Rosenblatt, 2023), leading educators and institutions to grapple with potential misuse (Dubinski, 2023) and the implications for classroom practice (Ho & Liu, 2023; Mills & Goodlad, 2023; Young, 2023). However, recognizing the expanding influence of AI in society and its transformative potential for learning, a more nuanced approach is crucial to providing effective guidance to educators. This paper acknowledges these initial anxieties, particularly following the widespread accessibility of large language models (LLMs) that generate diverse forms of content. Rather than solely concentrating on preventative measures, the focus here shifts to exploring how educators can proactively adapt their practices to maintain academic integrity in an AI-integrated environment, recognizing the need to move beyond traditional definitions of plagiarism in what Sebastien (2025) identifies as the post-plagiarism era. By providing key considerations and practical strategies, this paper aims to guide educators in leveraging these tools to foster critical thinking, promote ethical technology use, and prepare students for an AI-driven future, shifting the discourse from AI as a source of academic dishonesty to AI as a catalyst for innovative and responsible educational experiences.

Understanding the Potential of AI and the Challenge to Academic Integrity.

Generative AI presents unique and complex challenges to academic integrity due to its ability to autonomously create diverse content – including text, code, images, audio, and video. Unlike traditional plagiarism where students might copy existing material, generative AI can produce

entirely novel outputs that result from opaque, algorithmic processes and thus evade conventional source-matching techniques, making it difficult to identify original authorship (Huff, 2024). This autonomy blurs the lines of origin and originality, raising fundamental questions about authenticity and intellectual property (AIContentfy Team, 2024). While offering potential learning applications like brainstorming and draft generation, this capability also introduces unprecedented concerns about plagiarism, authenticity, and proper attribution across disciplines. For example, AI can generate complete essays tailored to specific prompts, code that functions as original submissions in programming assignments, and various media forms that mimic human creativity. Furthermore, the sophisticated summarization and translation features of AI can be misused to circumvent genuine engagement with source material, allowing students to bypass critical analysis.

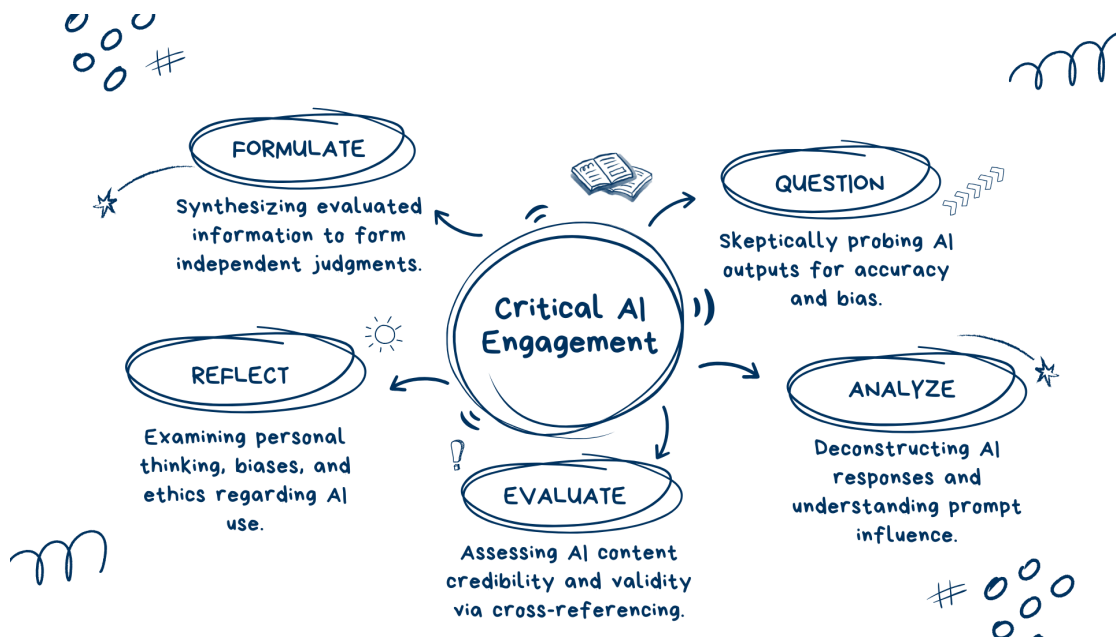
Moreover, the black box nature of many AI algorithms makes it challenging to understand how they generate content, adding another layer of complexity to detection and evaluation (Hassija et al., 2024). However, these tools also have limitations, such as the potential for inaccurate information, fabricated sources, and biased outputs (Massachusetts Institute of Technology Sloan Teaching and Learning Technologies, 2025), requiring students to critically evaluate and verify AI-generated content. Educators must understand both the potential applications and limitations of these rapidly evolving technologies to maintain integrity in educational settings and promote responsible, ethical use. This shift necessitates a move from simply asking “Who wrote this?” to a more nuanced inquiry into “How was this created, and does it matter?” (Sebastien, 2025, section title: Beyond Detection: The Challenge of Post-Plagiarism). Industry observations reinforce this, identifying distinct student approaches: those who avoid AI, those who uncritically adopt AI outputs leading to mediocre or potentially dishonest submissions, and those who thoughtfully integrate AI with their own expertise, often achieving superior results (Salak et al., 2025). Understanding this spectrum is crucial for developing effective integrity policies and assessment practices.

Guiding Principles for AI Integration in Education: Critical Thinking, Ethics, and Future Readiness.

Developing effective strategies for AI integration necessitates a foundational framework grounded in core educational values. Therefore, this section outlines three key guiding principles — prioritizing critical thinking, ethical responsibility, and future readiness — that can serve as a compass for educators. While initial discussions often centered on concerns about academic integrity and potential misuse, the expanding influence of AI also highlights its transformative potential for learning, reinforcing the need for this principled guidance when moving beyond purely preventative measures.

Cultivate Critical and Independent Thinking.

Central to navigating the age of AI is the cultivation of the critical and independent thinking skills of students. This involves fostering their ability to engage thoughtfully and autonomously with information, particularly AI-generated content, rather than using the output without scrutiny. Given that AI can produce outputs that may be inaccurate, biased, fabricated, or incomplete, students must develop the capacity for critical engagement through several key skills: applying skeptical inquiry (**Question**), deconstructing complex information and understanding prompt influence (**Analyze**), assessing the credibility and validity of sources (**Evaluate**), considering their own thinking processes and ethical reasoning (**Reflect**), and synthesizing information to develop their own independent judgments (**Formulate**). Fostering these abilities is key to ensuring AI serves as a tool for intellectual enhancement, not a replacement for cognitive effort. (Specific methods for developing these skills are detailed in the Practical Strategies section).



Equip Students for the AI-Driven Future.

Effective education must prepare students for the professional landscapes they will enter, which are increasingly shaped by AI. This principle emphasizes designing learning experiences that equip students with the knowledge and skills needed for ethical and competent AI use within their specific fields. This includes understanding discipline-specific applications of AI; emphasizing proper citation and attribution when using AI tools; and addressing potential legal, regulatory, and ethical implications relevant to their future professions. Introducing students to industry-standard tools, integrating AI-related case studies or simulations, and facilitating discussions on AI's evolving role in various careers are crucial components of this preparation.

Uphold Ethical Standards and Academic Integrity.

Maintaining academic integrity remains a cornerstone of education, which requires adaptation in the context of AI. This principle underscores the importance of instilling the values of original thought, honesty, and responsibility when using AI tools. Educators should establish clear guidelines regarding permissible AI usage. These guidelines should require transparent documentation of tool use and proper attribution.

Upholding these standards requires several essential practices. First, educators should create opportunities for students to reflect on making ethical decisions when using AI. Second, it is crucial to foster a classroom culture that prioritizes academic honesty and makes students feel

comfortable asking for guidance. Finally, educators need to discuss the importance of transparency about AI use and the consequences of misrepresentation (Gonsalves, 2024).

Foster Adaptability and Lifelong Learning.

The field of artificial intelligence is characterized by rapid and continuous evolution. Consequently, both educators and students must embrace adaptability and commit to lifelong learning regarding the capabilities, limitations, and impact of AI (California Community Colleges, 2024). This principle encourages fostering a growth mindset, viewing AI not merely as a challenge but as a potential tool for enhancing learning and productivity. It involves encouraging experimentation and reflection on AI use, sharing examples of effective and ethical applications, and demonstrating a commitment (particularly from educators) to staying current with AI developments and adapting pedagogical practices accordingly.

Promote AI Literacy.

AI literacy is foundational to the responsible use of this technology. It encompasses a basic understanding among all stakeholders of what the technology is, how it functions conceptually, its potential capabilities, and its inherent limitations and potential pitfalls (Crabtree, 2023). Demystifying AI by explaining its workings in clear ways – discussing its strengths and weaknesses (such as tendencies towards inaccuracy, fabricated information or "hallucinations," and algorithmic bias), and exploring the ethical and social implications are vital (Alqahtani et al., 2023). Promoting AI literacy empowers students and educators to make informed decisions about appropriate use of the technology and to critically evaluate its generated outputs.

These guiding principles — cultivating critical thinking, equipping students for the future, upholding ethical standards, fostering adaptability, and promoting AI literacy — collectively provide a robust framework for educators integrating AI into their learning environments (cf. UNESCO, 2025). They encourage a shift from a solely defensive posture focused on risks, towards a proactive and balanced approach that leverages the potential of AI while mitigating its challenges. By grounding pedagogical decisions and practices in these interconnected principles, educators can foster deeper learning, promote responsible technology use, and effectively prepare students to navigate the complexities of the generative AI era with integrity and discernment. These principles form the bedrock for the specific considerations and practical strategies discussed subsequently.

Key Considerations for AI Integration.

Thoughtful and ethical AI integration requires a strategic shift from theory to practice. To apply the guiding principles discussed and address the complexities of AI in education, it may be valuable to explore the practical implications of AI integration, particularly regarding ethical considerations, frameworks for implementation, and the balance between benefits and limitations. This necessitates a move beyond simplistic acceptance or rejection of AI as an educational tool. Instead, a nuanced understanding of ethical, pedagogical, and practical factors is crucial. By considering these key aspects, educators can create an AI-integration framework that supports learning objectives and maintains academic integrity.

Ethical Considerations.

- Develop assignment-specific guidelines detailing permissible AI usage, including clear instructions on prompt design and documentation.
 - For example, guidelines for a rhetorical analysis assignment might state: “You may use AI for brainstorming devices and context research, with prompts that clearly specify the task and desired output. AI cannot generate your analysis or thesis. Submit an AI Usage Log detailing tools, prompts, and edits, with proper citations. Assessment emphasizes your original analysis and critical thinking.”
 - As Awaida et al. (2025) emphasized, it is crucial to make AI guidelines explicit, detailing what is permitted, prohibited, or requires specific documentation. This acknowledges that acceptable use can vary significantly between different courses or even individual assignments. Leading institutions, including the University of Michigan, the University of Utah, and Duke University, have developed nuanced AI policies. These policies often provide faculty with clear guidance for various assignment types, typically implemented through instructor discretion and explicit syllabus statements. Such evolving frameworks serve as valuable models for upholding academic integrity while promoting the responsible use of AI.
- Clearly communicate to students how AI use will be assessed in their work, providing rubrics and examples to ensure transparency and build trust in the evaluation process (Gonsalves, 2024).

- While some educators may use signed documents to acknowledge adherence to AI usage guidelines, consider combining this with a strong emphasis on clear communication, ongoing dialogue, and a supportive learning environment to foster genuine adherence and understanding (Gonsalves, 2024).
- Facilitate open discussions with students about how AI is used in assignments. Emphasize the importance of documenting prompts transparently, being aware of inherent biases, and understanding how AI can enhance learning (Gonsalves, 2024). This approach aims to alleviate any potential student anxieties.

Frameworks for Integration.

- Given the complex decisions involved in permitting AI use while upholding academic integrity, consider the use of a tiered framework to provide a structured way to approach AI integration in assignments.
 - One example of a structured approach is the AI Assessment Scale developed by Perkins et al. (2024), which categorizes assessments into five levels of AI integration. These levels range from No AI – where students complete assessments without AI assistance – to AI Exploration – where AI is used innovatively to enhance learning and problem solving.
- Explain to students the distinction between using AI as a tool to enhance learning and using it to generate entire assignments without any form of critical engagement (e.g., AI for research versus final analysis; grammar checks versus content creation). Provide rubrics and examples to demonstrate this difference.
- Consider the learning objectives of each assignment to determine when AI use is beneficial (augmenting skills like brainstorming, data analysis) or detrimental (replacing critical thinking in essay writing or conceptual explanations).

Considerations for Controlled AI Integration.

- Design lessons that use specific AI tools purposefully to help students achieve particular learning goals (e.g., AI translation for language learners, AI research databases, AI simulations for complex concepts).
- Implement project-based learning where students have the opportunity to use field-relevant AI tools to develop digital literacy and career readiness skills.

Limitations of AI Detection and Emphasis on Ethical Responsibility.

- Consider shifting away from relying primarily on traditional detection software, which struggles with AI-generated content (Sebastien, 2025). Instead, prioritize fostering integrity through forward-thinking assessment methods (see the Adapt Assessment Methods section) and promoting the ethical use of AI (refer to Guiding Principles for AI Integration in Education).
- Address the limitations of AI detection by actively cultivating a classroom culture that promotes academic integrity through open communication and the modeling of ethical practices like responsible use, appropriate citation, and transparency.
- Focus on helping students build critical thinking and analytical skills that are vital in an AI-driven world. This can be achieved through project-based learning or case studies that require analysis, whether they involve AI or not.

Promote Critical Evaluation of AI Output.

- Given the potential of AI for generating inaccurate, biased, or irrelevant content, a crucial consideration is equipping students with the skills to critically evaluate AI outputs. This includes fostering their ability to analyze information for accuracy, identify potential biases, assess relevance, and understand the importance of source verification, rather than accepting AI-generated content at face value. (Methods for teaching these skills are detailed in Practical Strategies).

Equity of Access.

- Recognize varying student access to AI tools (free versus paid) and the potential impact that may have on their learning.
- Provide equitable access (e.g., institutional licenses, lists of free tools) or offer alternative assignments to ensure full participation regardless of individual student access.
 - This is crucial not only for participation but also for fairness in assessment, as unequal access to powerful AI tools can create significant disadvantages, raising digital equity concerns (Awaida et al., 2025).
- Share guidance for both free and paid options or design assignments that are completable with either to minimize cost impact.

Thoughtfully applying these key considerations is crucial for successful AI integration. Educators should focus on several key areas: actively establishing ethical protocols, utilizing structured frameworks, prioritizing student skills in critical evaluation and AI literacy, addressing equity concerns, and shifting focus from detection software towards pedagogical innovation. Taking these steps allows educators to strategically leverage AI and enrich learning environments while safeguarding academic integrity. Embracing this nuanced and proactive approach helps the educational community shape AI into a supportive tool, while maximizing its pedagogical value and minimizing disruption.

Practical Strategies for Ethical and Effective AI Use.

Putting the key considerations for AI integration into action requires concrete methods. This section details practical strategies educators can use to implement AI ethically and effectively, focusing on empowering students to become responsible users and adapting assessment methods to reflect the evolving technological landscape. By adopting these strategies, educators can foster a culture of academic integrity while preparing students for an AI-driven future. Crucial to this process is developing a trusting environment where students and faculty can openly discuss AI use (Gonsalves, 2024).

Developing Student AI Literacy, Evaluation Skills, and Ethical Awareness.

Effectively integrating AI requires equipping students with the knowledge and skills to understand, evaluate, and use these tools responsibly. Consider the following strategies:

- **Foundational Understanding:** Explain how AI tools work in accessible ways, perhaps using analogies (like a language model learning from books) or simple visuals, avoiding overly technical jargon. Clearly discuss AI's capabilities but also its limitations, using real-life examples or class activities where students identify errors, fabricated information ("hallucinations"), or nonsensical outputs from AI (see sections on Promote AI Literacy and Critical Evaluation of AI Output).
- **Critical Evaluation Skills:** Teach students specific methods to analyze AI-generated content for accuracy, bias, and relevance. Begin by introducing structured evaluation frameworks, such as the R.A.C.C.A. Framework (as cited in University of Texas Rio Grande Valley, n.d.), and practicing source verification techniques. Reinforce these skills

through practical exercises focused on critique, such as assignments that require students to compare and contrast AI-generated content with human-created material or to evaluate it against known criteria. For example, have students fact check an AI-written article for accuracy and bias, or improve an AI-generated business plan by applying real-world constraints and critical analysis. Additionally, compile and share lists of resources like fact-checking websites to support students in their evaluations.

- **Ethical Use and Guidelines:** Guide students on how to use AI tools fairly and honestly. Provide concrete examples of acceptable and unacceptable AI use within the context of your course and specific assignments. For instance, you might illustrate the difference between using AI for brainstorming versus writing the final paper, or using it for grammar checks versus generating core content. Additionally, emphasize that students must acknowledge AI use according to relevant institutional policies.
 - Beyond providing guidelines, suggestions from institutional leaders indicate a need to help students learn how to use these powerful tools ethically and effectively through integrated curriculum instruction (Awaida et al., 2025).
- **Promoting Independent Thought:** Continuously highlight the importance of students developing their own critical thinking, analytical skills, and original voice, positioning AI as a potential thought partner or assistant, not a replacement for their own intellectual engagement.
- **Practical Skills:** Teach students how to communicate effectively with AI through clear instructions and prompt design, perhaps introducing frameworks (like CLEAR; Cascella et al., 2023) to help them write strong prompts and understand how phrasing impacts responses.

Adapt Assessment Methods.

- Prioritize assessments that emphasize authentic learning, critical thinking, and knowledge application over tasks AI can easily generate (cf. Sebastien, 2025).
 - This adaptation may require not only changing assessment formats but also fundamentally rethinking course learning objectives to reflect skills needed in an AI-integrated world, such as critical evaluation and ethical application, a point echoed by academic technology leaders (e.g., Awaida et al., 2025).

- Modify assessment rubrics to clearly include criteria for AI integration. Consider covering proper attribution, originality, ethical use, and critical engagement with AI-generated content.
 - For instance, in a history course, the rubric could specify that students might use AI to gather initial research data, but they must critically analyze and interpret the information themselves. This ensures students utilize AI as a research tool while demonstrating their own analytical skills in evaluating and contextualizing the data provided.
- Incorporate tasks that require students to critically engage with AI, such as evaluating the content for bias or analyzing the ethical implications of using the technology (Sebastien, 2025).
- Consider formats less susceptible to direct AI generation (e.g., oral presentations, debates, moderated discussions, timed in-class activities).
- Incorporate reflective practices that require students to document and analyze their AI-use process (i.e., workflow, prompts, ethics) through journals, annotations, learning portfolios, collaborative documents, or video reflections (Sebastien, 2025).
- Emphasize the learning process over the final product by shifting assignment focus to the learning journey. This means asking different questions. Instead of “What did you create?,” asking “How did you learn? What sources did you evaluate? How did you synthesize conflicting information? What would you do differently next time?” View AI as a starting point that requires critical development; implement process-oriented assessments like portfolios; encourage iteration; grade based on learning process elements; and provide feedback centered on thinking, problem solving, and ethics. Because AI can generate polished final products, simply evaluating that product does not guarantee learning or integrity. Therefore, assessing the student's process – how they researched, engaged with AI tools, and reflected – is increasingly important (e.g., Salak et al., 2025).

Guidance for Emphasizing Controlled Examination Environments.

While this paper advocates for a broad rethinking of assessment in the age of AI, it is recognized that some educators and institutions may choose to double down on traditional, controlled examination environments — such as timed, closed-book, and proctored exams — as a primary means to ensure individual student accountability and mitigate AI misuse in specific evaluative

contexts. If this approach is adopted, the following considerations can help maximize its effectiveness and fairness, while still acknowledging the evolving landscape:

- Ensure the exam content and format directly align with the core learning objectives that genuinely necessitate unaided performance. For instance, assessing a student's ability to quickly recall and apply fundamental formulas in an introductory physics course might be a valid use case.
- While closed book, these exams should still prioritize questions that demand critical thinking, application of principles to novel scenarios, synthesis of information learned throughout the course, or problem solving, rather than solely relying on rote memorization of facts AI could easily provide.
- Utilize unique case studies, scenarios, or data sets generated specifically for the exam that require students to apply learned concepts in ways that AI (without prior specific training on that exact data) might struggle to replicate with genuine insight.
- Emphasize that even if proctored, closed-book exams are used for certain summative evaluations, they should ideally be part of a diverse assessment strategy.
- While the exam itself is a product, fostering a culture of academic integrity, discussing ethical AI use openly, and focusing on the learning process throughout the course are crucial adjuncts to any assessment strategy, including controlled exams.

Faculty Training, Support, and AI Policy Development.

As you integrate AI tools into your teaching, ensure your approach aligns with your institution's specific policies on academic integrity. Successfully navigating this requires robust institutional support – often involving dedicated committees, updated vendor security and privacy reviews, clear data protection protocols, and comprehensive training programs for both faculty and students (Awaida et al., 2025). Focus on practical strategies for effective integration, supported by resources and training insights like those discussed by Gonsalves (2024). Consider the following areas:

- Consistently and clearly communicate your course's expectations for AI use, addressing any questions or concerns proactively.
- Develop fair and consistent assessment methods for AI-assisted work by using revised rubrics that account for AI tool integration and providing examples of appropriate use.

- Create a classroom environment that encourages trust and open dialogue about AI use. Achieve this through explicit discussions and co-created guidelines that highlight the potential of AI to enhance learning (Schmidli et al., 2023).

As you navigate the development and implementation of AI-use policies within your institution, consider focusing on:

- Creating or adapting clear course-level AI guidelines.
- Engaging in collaborative discussions with colleagues and program leadership regarding AI policy within your department or program.
- Ensuring your course policies and practices align clearly with your institution's specific academic integrity standards and AI directives.
- Establishing a system for ongoing feedback and communication between faculty and students regarding the effectiveness of AI policies, allowing for iterative revisions and improvements (Gonsalves, 2024).

Ultimately, these practical strategies — encompassing enhanced student AI literacy and ethical awareness; adapted assessment methods; and robust faculty training, support, and policy development — are vital for navigating the complex intersection of AI and academic integrity. Implementing these interconnected approaches allows educators and institutions to foster a learning environment that supports academic and ethical standards, prepares students for responsible AI engagement, and empowers faculty to effectively integrate these evolving technologies.

Conclusion.

The integration of AI into education necessitates a fundamental shift in how we perceive academic integrity. While the challenges are significant – including the need to redefine assessment practices and ensure equitable access – the opportunities are transformative. Instead of viewing AI as an adversary, educators should embrace it as a partner in learning. By fostering AI literacy, promoting ethical usage, and prioritizing critical thinking, we can create a learning environment that empowers students to thrive in the age of AI. The goal is not to eliminate AI, but to cultivate a generation of learners who can use it responsibly and effectively. By strategically integrating AI into curricula, we can move beyond simply preserving academic

integrity to actively enhancing the learning process, preparing students for the demands of a rapidly evolving world. Ultimately, embracing the post-plagiarism era (Sebastien, 2025) requires a fundamental shift in how we approach teaching, learning, and assessment, moving towards a model that values ethical integration and the development of new skills for an AI-driven world.

Perhaps the most important shift in this AI-driven world is recognizing that our learning communities—the relationships between students, faculty, and peers—become more valuable, not less. While AI can generate content, it can't build trust, provide emotional support, or create the kind of collaborative learning that happens when humans work together toward shared goals. This means investing in discussion forums, study groups, peer review processes, and mentorship relationships, creating spaces where students can safely experiment, fail, and learn from each other.

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