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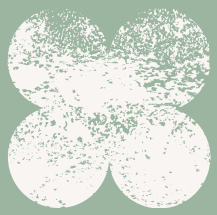
8 HUMAN SKILLS IN THE AGE OF AI

With the continued emergence of AI, it will be crucial to preserve and develop skills that promote a future in which all humans are able to thrive for generations to come. This resource outlines 8 skills and pairs each with a set of humanistic values. Whether or not you are currently integrating AI into your classroom, we invite you to consider: *Where do these skills already appear in your course? Where might there be opportunities to introduce, reinforce, or expand them?*

Critical Analysis

TRUTH & DISCERNMENT

The skill of interrogating, interpreting, and evaluating information to find flaws, biases, patterns, gaps, or missing context. As AI makes it easier to generate confidently *in*accurate content, we must be able to ask the right questions to enable us to judge the quality and verify the reliability of what we see.



Systems Thinking

RESPONSIBILITY & INTERCONNECTEDNESS

The ability to recognize that every technical solution is also and always inseparable from the social, economic, and cultural systems it interacts with. A sociotechnical lens allows us to analyze how AI tools, cultural forces, and human behaviors mutually shape one another within complex ecosystems.

Metacognition

SELF-AWARENESS & AGENCY

The ability to monitor, regulate, and explain your own mental and emotional processes. Because AI threatens to smooth over the productive friction of learning, we must maintain agency by *explaining* our work, *self-assessing* our knowledge, and *justifying* our decisions along the way.



Interpersonal Communication

EMPATHY & RELATIONSHIPS

The ability to effectively exchange ideas with others through multimodal communication, active listening, and strategies that develop shared understanding, especially in contexts of tension. As we integrate AI into collaborative contexts, our ability to cultivate trusting, empathetic relationships will ensure that human connection remains central to our working and living together.

This resource draws from the "Being Human in 2035" report (Elon University), the "Future of Jobs 2025" report (World Economic forum), and the AI@Mines Literacy Framework.

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Adaptability

Growth Mindset & Resilience

The ability (and willingness) to treat the first attempt as a draft or prototype, process difficult feedback, respond to unforeseen constraints, ambiguity, or failure—and try again. Given our evolving and uncertain technical landscape, we must maintain the mental flexibility and resilience to update, pivot, and persevere.



Creative Thinking

Imagination & Originality

The ability to imagine new possibilities, make unique connections, and use artistic expression to convey the human experience. While AI can synthesize existing data into new patterns, it is human imagination, voice, and experience that will continue to imbue ideas with meaning.

Ethical Reasoning

Justice & Integrity

The ability to make responsible, human-centered decisions by evaluating their societal and environmental implications. Whereas AI offers us new possibilities for efficiency, humans must consistently intervene to ask "*should we*?" rather than "*can we*?" to ensure we prioritize humanity and social good.



Problem Framing

Curiosity & Inquiry

The skill of defining the underlying "*why*," identifying the right questions to ask, and curating the specific context and perspectives needed before attempting to solve a problem. Given today's data abundance, we play a critical role in shaping the parameters and context necessary to transform this raw information into meaningful action.

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This graphic highlights the primary alignments between the AI@Mines Literacy framework and the 8 human skills listed above. Note that these connections are *not* exhaustive; for example, Critical Analysis is surely an important component of Ethical Stewardship, just as Adaptability is necessary for Strategic Communication. This mapping merely serves as a **starting point** for faculty to identify direct opportunities for skill-building within the AI@Mines Literacy framework.

	Foundational Proficiency	Ethical Stewardship	Critical Agility	Strategic communication	Applied Innovation
Critical Analysis	●		●		●
Systems Thinking	●	●			●
Metacognition		●	●		●
Interpersonal Communication			●	●	●
Adaptability			●		●
Creative Thinking		●		●	●
Ethical Reasoning		●			●
Problem Framing	●			●	●