AI Literacy for Educators and Researchers at Queen's

Skills	Level 1	Level 2	Level 3	Level 4
Technical Knowledge: How AI systems work, what they do, and where they apply.	Can define basic terms and recognizes common applications.	Can explain how AI learns and data's role in this learning.	Can compare AI approaches and identify appropriate use cases.	Assesses emerging tools; evaluates strategic implications for education.
Ethical Awareness: Recognizing bias, dilemmas, and responsibilities in AI use.	Aware of basic ethical concepts in education and research; identifies obvious biases in outputs.	Applies academic integrity and research ethics to academic scenarios; recognizes attribution and authorship dilemmas.	Evaluates AI tools against ethical standards; analyzes regulations and guidelines internal and external to Queen's; discloses AI use in line with disciplinary and publisher norms.	Reviews and contributes to comprehensive ethics policies; creates institutional governance structures.
Critical Thinking: Questioning, evaluating, and verifying AI claims and outputs.	Questions AI claims; recognizes its limitations, including those of AI-detection tools.	Applies evaluation criteria; detects biases.	Examines underlying assumptions; analyzes methodologies; evaluates how AI impacts reasoning and judges when tasks should avoid AI.	Develops evidence-based critiques; advocates for standards for responsible AI use.
Practical Use: Working with AI tools effectively and in context.	Identifies common AI tools and their basic functions.	Operates AI tools through guidance and compares outcomes.	Integrates AI into workflows where appropriate; considers contextual factors, and can design learning and assessments that account for AI tools	Creates programmatic AI-use policies and supervises learner/research assistant use; can evaluate AI's impacts on learning and scholarly outcomes.
Societal Impact: Understanding AI's wider effects across people and sectors.	Recognizes AI's influence across sectors and its potential impacts.	Analyzes specific examples; evaluates benefits vs. risks (i.e. ethical, environmental, etc.)	Examines trade-offs; analyzes power dynamics, including disciplinary norms for AI use.	Develops approaches for equitable deployment and engagement strategies; prepares students for AI use in their field; preserves human connection and judgement.

Your Learning Plan

Foundations

Build baseline AI awareness and learn ground rules for using AI well at Queen's.

- **Foundational AI Literacy for Queen's**
- **Open Educational Resources and Guidelines**
- **Draft Research and Research Admin Guidelines** (Final Version Forthcoming)

Competence

Learn to question AI, recognize bias, and use it critically.

- **Operational Excellence**
- Building Leadership Capacity Coffee Chat Series
- GenAI T&L Forum

Excellence

(Advanced credentials and courses)

Invest in yourself and your future through structured, credit-bearing programs.

More and free offerings are forthcoming.

- A few variants of a MSc AI, **MMAI**, or **MBA**
- **Productivity Edge with AI**