

Artificial Intelligence Leadership (AIL 8100) Artificial Intelligence: Fundamentals, Ethics, and the Role

Course Description

In this course, the participants will learn to describe and explain the fundamental concepts in AI (e.g., machine learning, deep learning, neural network, etc.) and the role AI plays in business functioning and decision-making – both in the short and long terms. Then, using actual case studies, examples, and applications of AI, the participants will work on identifying business opportunities where AI could be applied. Finally, they will learn the systematic framework and structured approaches for developing, designing, and implementing AI projects to solve specific business problems. The course will also focus on various conflicts, ethical, hiring and skills, and other leadership challenges organizations face when applying AI in business decision-making. The case studies and examples discussed in the course will cover a wide range of industries – customer service, retail, financial services, healthcare, energy, and security. The course does not require a prior programming, engineering, or advanced statistics and mathematics background.

Learning Objectives

As a result of this course, the student will be able to:

- Elaborate on the role of AI in functioning, decision-making, and leadership in businesses and organizations
- Interpret critical terms and concepts (e.g., methods, technologies) used in AI
- Propose AI-based solutions to enhance organizations' decision-making capabilities
- Assess different AI models and solutions based on methodology, data requirements, and effectiveness
- Analyze systematic and structured frameworks to plan, design, and execute AI projects to solve specific business problems
- Evaluate solutions for AI in businesses and organizations based on human-machine interactions, biases, and lack of supply of relevant skills and talents
- Measure the benefits of implementing AI in organizations to improve competitive posting, sustainability, and customer experience

Grade Scheme: Letter Grade

Minimum Pass: 70%

Deliverables:

- Reading Logs
- Team Projects

*Please note that this document is for marketing purposes and that the details of the course including grading and objectives may change or vary.

Grade	Grade Point Average (GPA)	Percentage
A+	4.3	90-100%
A	4.0	94-97%
A-	3.7	90-93%
B+	3.3	87-89%
B	3.0	84-86%
B-	2.7	80-83%
C+	2.3	76-79%
C-	2.0	70-75%
F	0.0	0-69%

Artificial Intelligence Leadership (AIL 8101) Managing AI Development and Infrastructure

Course Description

The objective of this course is to introduce students to three fundamental areas of AI development for business applications. With a focus on developing scalable AI products, the course explores how leaders can effectively deploy robust server infrastructure, data pipelines, and front/backend applications. AI applications rely primarily on bottom-down programming methodologies to truly render models that learn over time with supervised or unsupervised models. These models are then pegged to an accuracy score, ensuring reliability and trust. However, as industry standards move towards Explainable AI (x AI) frameworks, leaders must understand the course's three fundamental areas.

Learning Objectives

As a result of this course, the student will be able to:

- Explain AI infrastructure, maintenance plans, and overall costs
- Develop frameworks to assess infrastructure and develop growth strategies
- Compare public versus private infrastructure and its implications for users
- Assess data pipelines to determine ideal strategies for continuous learning
- Develop scalable AI products within industry best practices and standards
- Describe AI delivery interfaces, programming languages, and code

Grade Scheme: Letter Grade

Minimum Pass: 70%

Deliverables:

- Individual Logs
- Project Reports

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B	3.0	84-86%
B-	2.7	80-83%
C+	2.3	76-79%
C-	2.0	70-75%
F	0.0	0-69%

Artificial Intelligence Leadership (AIL 8102) Policies, Procedures, and Processes to Manage Artificial

Course Description

This course is designed to assist leaders with strategically planning their organization's growth and efficiency through AI. Whether an organization is developing AI products or integrating third-party AI applications into their operations, leaders must adhere to a set of standards. With the recent legislative discussions around the Artificial Intelligence and Data Act, there is increasing attention on governance and controls around AI. This course introduces leaders to the key standards in this field of knowledge and adopts a series of playbooks to support them in their strategic planning.

Learning Objectives

As a result of this course, the student will be able to:

- Apply governance, risk, and control playbooks around AI
- Identify and utilize frameworks and policies that apply to AI development
- Assess and mitigate any risk assumed by adopting AI solutions
- Participate in developing IP around AI to support commercialization and innovation
- Identify supports for Canadian companies through an understanding of the wider Canadian AI ecosystem

Grade Scheme: Letter Grade

Minimum Pass: 70%

Deliverables:

- Individual Logs
- Project Reports

*Please note that this document is for marketing purposes and that the details of the course including grading and objectives may change or vary.

Grade	Grade Point Average (GPA)	Percentage
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A	4.0	94-97%
A-	3.7	90-93%
B+	3.3	87-89%
B	3.0	84-86%
B-	2.7	80-83%
C+	2.3	76-79%
C-	2.0	70-75%
F	0.0	0-69%