ARTIFICIAL INTELLIGENCE AND DATA SCIENCE - PROGRAM PLAN

2 YEAR - ONTARIO COLLEGE GRADUATE CERTIFICATE

MAY 2023 INTAKE (SPRING)

All courses have a minimum passing grade of 50%. A minimum of 60% GPA is required for graduation.

SPRING 2023 SEMESTER 1 (MAY - AUGUST) - 7 COURSES — TOTAL HOURS: 280

AISC 1000 Python	AISC 1001 Statistical Modelling and Inference	AISC 1002 Maths for Data Science	AISC 1003 Machine Learning 1	AISC 1004 Deterministic Models and Optimization	AISC 1005 AI Principles and Best Practices in Canada	AISC 1006 Step Presentation (Step 1)
CREDIT VALUE: 5	CREDIT VALUE: 3	CREDIT VALUE: 3	CREDIT VALUE: 3	CREDIT VALUE: 3	CREDIT VALUE: 2	CREDIT VALUE: 1

FALL 2023 SEMESTER 2 (SEPTEMBER - DECEMBER) - 7 COURSES — TOTAL HOURS: 280

PREREQUISITE AISC 1000 1002 1003			PREREQUISITE AISC 1002				
AISC 2000 Machine Learning 2	AISC 2001 Data Visualization	AISC 2002 Data Warehousing and Business Intelligence	AISC 2003 Advanced Analytics	AISC 2004 Data Storytelling Techniques	AISC 2005 Business Communications in Canada	AISC 2006 Step Presentation (Step 2)	AISC 2016 Co-op and Canadian Career Search Prep 1
CREDIT VALUE: 3	CREDIT VALUE: 4	CREDIT VALUE: 3	CREDIT VALUE: 3	CREDIT VALUE: 3	CREDIT VALUE: 3	CREDIT VALUE: 1	CREDIT VALUE: 1

WINTER 2024 - ACADEMIC BREAK (JANUARY - APRIL)

SPRING 2024 SEMESTER 3 (MAY - AUGUST) - 8 COURSES — TOTAL HOURS: 294

PREREQUISITE AISC 1000 1003 2000	PREREQUISITE AISC 1000	PREREQUISITE AISC 1000	PREREQUISITE AISC 1000	PREREQUISITE AISC 1000	PREREQUISITE AISC 1000	PREREQUISITE AISC 1000 1003 2000	
AISC 2007 Deep Learning	AISC 2008 Computer Vision	AISC 2009 Natural Language Processing	AISC 2010 Programming and Deployment of IoT Devices	AISC 2011 Data Science Project Management and Requirement Gathering	AISC 2012 Tools for AI	AISC 2013 Deployment of AI Solutions	AISC 2017 Co-op and Canadian Career Search Prep 2
CREDIT VALUE: 4	CREDIT VALUE: 3	CREDIT VALUE: 3	CREDIT VALUE: 3	CREDIT VALUE: 1	CREDIT VALUE: 3	CREDIT VALUE: 3	CREDIT VALUE: 1

To be eligible for CO-OP or AIP, you must have passed all your courses and have a weighted GPA of 60% or higher.

FALL 2024 SEMESTER 4 (SEPTEMBER - DECEMBER) - 2 COURSES — TOTAL HOURS: 490

KAGGLE COMPETITION OR PROFESSIONAL CERTIFICATION

AISC 3001 Kaggle Competition	AISC 3002 Professional Certification Preparation
This course allows you to find and publish data sets, explore and build models in a web-based data-science environment, work with other data scientists and machine learning engineers, and enter competitions to solve data science challenges.	You will work toward certification in the most in-demand proprietary certifications to enhance your employability attributes upon graduation.

CO-OP PLACEMENT OR APPLIED INDUSTRY PROJECT

COOP 3000 Industry Co-op	AISC 3000 Applied Industry Project - AI and Data Science
Co-op is a work integrated experience built into post-secondary programs to allow you to get hands on experience in your field of study while applying your academic studies. The integration of formal learning practices with developmental learning opportunities helps to enhance and consolidate the knowledge, skills, abilities and attitudes of emerging professionals. This is also an opportunity to interact and demonstrate your skills to potential employers.	This option is only available under extenuating circumstances and students will need the approval of the Academic Vice-President. The integration of formal learning practices with developmental learning opportunities helps to enhance and consolidate the knowledge, skills, abilities and attitudes of emerging professionals. The industry project will be performed on the College campus under the guidance of the College faculty.