WILMINGTON UNIVERSITY
COLLEGE OF TECHNOLOGY
BASIC COURSE INFORMATION

COURSE TITLE: Machine Learning Principles

COURSE NUMBER: CSC 430

I. MAJOR INSTRUCTIONAL OBJECTIVES:

GOAL A: Demonstrate an introductory comprehension of Machine Learning.
Learning Outcomes:
A-1: Create data repositories for machine learning.
A-2: Identify and implement a data-ingestion solution.
A-3: Identify and implement a data-transformation solution.

GOAL B: Identify, formulate, and solve exploratory data analysis tasks.
Learning Outcomes:
B-1: Sanitize and prepare data for modeling.
B-2: Perform feature engineering.
B-3: Analyze and visualize data for machine learning.

GOAL C: Apply Machine Learning to solve real world business problems.
Learning Outcomes:
B-1: Frame business problems as machine learning problems.
B-2: Select the appropriate model(s) a given machine learning problem.
B-3: Train machine learning models.
B-4: Perform hyperparameter optimization.
B-5: Evaluate machine learning models.

II. CLASS PARTICIPATION:

Students are expected to attend class and participate actively and in a positive way.
Questions and relevant observations are encouraged and enrich the experience of the
entire class. Computers in the classroom are intended to be used as tools to enhance the
students' learning experience. Instant messaging, gaming, emailing, and surfing the web
are distractions to the student, the surrounding students, and the instructor and constitute
inappropriate behavior. Students are ethically obliged to avoid these and similar
practices.