



Course Prefix/Number/Title: CSCI 105 Beginning Generative AI

Number of Credits: 3

Course Description: This beginner-friendly course provides an accessible introduction to the exciting world of Generative Artificial Intelligence (AI). Students will explore the fundamental concepts, techniques, and applications of generative models, learning how AI can create new, original content such as images, text, music, and even videos. This course will equip students with the foundational knowledge and skills to understand and engage with generative AI systems.

Pre-/Co-requisites: None

Course Objectives: None

Instructor: Trisha Haman

Office: Dakota College Downtown, 120 East Burdick Expressway - Minot

Office Hours: 9:00-10:00 MWF; noon-1:00 T, Th; Virtual appointments available by appointment

Phone: 701-858-3313

Email: trisha.haman@dakotacollege.edu

Lecture/Lab Schedule: 9:30-10:45 T, Th

Textbook(s): No textbook required; Open Educational Resources

Course Requirements: Instruction procedures include lecture, demonstrations, class discussion and research assignments, quizzes and tests.

Tentative Course Outline:

Introduction to Generative AI

Exploring and Comparing LLMs

Using Generative AI Responsibly

Prompt Engineering Fundamentals

Advanced Prompts

Text Generation Apps

Securing AI Applications

The Generative AI Application Lifecycle

Rag and Vector Databases

Open Source Models

AI Agents

Python/OpenAI

General Education Competency/Learning Outcome(s) OR CTE Competency/Department Learning Outcome(s): #1: Employ industry-specific skills in preparation for workplace readiness; #2: Employ management of information procedures.

Relationship to Campus Focus: The course focuses on knowledge and application of technology. Generative AI relates to the application of technology because it takes advanced knowledge of computer science, machine learning, and data, and applies it to create new content such as text, images, music, or code. The technology uses algorithms and neural networks to generate outputs that mimic human creativity.

Classroom Policies: Students are required to complete all class activities. Cheating will result in the automatic failure of this course. All assignments will be submitted in Blackboard. Incompletes are handled according to the campus policy.

Student Email Policy:

Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student's campus-assigned email address will be the only one recognized by the Campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student.

Academic Integrity:

According to the DCB Student Handbook, students are responsible for submitting their own work. Students who cooperate on oral or written examinations or work without authorization share the responsibility for violation of academic principles, and the students are subject to disciplinary action even when one of the students is not enrolled in the course where the violation occurred. The Code detailed in the Academic Honesty/Dishonesty section of the Student Handbook will serve as the guideline for cases where cheating, plagiarism or other academic improprieties have occurred.

Disabilities or Special Needs:

Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services.

Title IX:

Dakota College at Bottineau (DCB) faculty are committed to helping create a safe learning environment for all students and for the College as a whole. Please be aware that all DCB employees (other than those designated as confidential resources such as advocates, counselors, clergy and healthcare providers) are required to report information about such discrimination and harassment to the College Title IX Coordinator. This means that if a student tells a faculty member about a situation of sexual harassment or sexual violence, or other related misconduct, the faculty member must share that information with the College's Title IX Coordinator. Students wishing to speak to a confidential employee who does not have this reporting responsibility can find a list of resources on the DCB Title IX webpage.

AI Student Policy:

Unless otherwise indicated in the course syllabus, or in individual instructions for course assignments, or in the absence of the express consent of the course instructor, students are not allowed to utilize generative AI to help produce any of their academic work. Any violation of this policy will be considered an act of academic dishonesty as outlined within the Dakota College Code of Student Life.

RESPONSIBILITIES

Students	• Responsible to follow the syllabus and assignment instructions regarding use of generative AI for all academic work. • Obtain permission of the instructor prior to the use of generative AI that is outside of the syllabus or assignment instructions. Provide appropriate rationale for how the use
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	of generative AI will enhance the learning experience for the assignment. • In instances where generative AI is permissible, appropriately cite the generative AI program used and indicate where in the assignment it was used, in a brief submission statement.
Faculty	• Determine if the use of generative AI could enhance student learning in any assignment or project. • Clearly indicate in all course syllabi if generative AI is allowable for any academic work. • If allowable, give specific parameters for how and when generative AI may be used. • If a violation of generative AI for the individual course/syllabus is suspected, discuss the concern with the student. If violation is still suspected, inform the appropriate semester coordinator/program director.