

SYLLABUS  
PART I  
EDISON STATE COMMUNITY COLLEGE  
CIS 109S INTRODUCTION TO ARTIFICIAL INTELLIGENCE  
1 CREDIT HOUR

**COURSE DESCRIPTION**

Introduction to AI concepts and current top AI tools, with emphasis on applying AI thoughtfully, responsibly, and ethically. Students will understand both the importance and power of AI, as well as its limitations and the importance of continuous learning in the ever-changing AI landscape. Academic integrity will be discussed and enforced as students learn current AI tools.

**COURSE GOALS**

The student will:

| Bloom's Level |                                                                                                                                                 | Program Outcome |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 2             | 1. Explain foundational AI concepts such as artificial intelligence, large language models, machine learning, deep learning, and generative AI. | 1, 2, 5         |
| 1             | 2. Outline the potential benefits and limitations of common AI applications.                                                                    | 7               |
| 3             | 3. Explain the types of inputs and outputs foundational to AI systems and how input form and quality influence output.                          | 5, 7            |
| 1             | 4. Use AI tools to explore, accomplish specific goals and critically assess outputs for accuracy and relevance to the task.                     | 3, 4, 5         |
| 2             | 5. Explain the implications (ethical, societal, environmental, legal, practical) of AI                                                          | 1, 2            |
| 5             | 6. Create weekly videos summarizing topics learned, reflecting critically about the knowledge and impact of current events in AI                | 1, 2, 5         |
| 2             | 7. Interact with classmates about AI topics, while giving and receiving feedback with an open mind.                                             | 1, 2, 6         |

**CORE VALUES**

The Core Values are a set of principles that guide in creating educational programs and environments at Edison State. They include communication, ethics, critical thinking, human diversity, inquiry/respect for learning, and interpersonal skills/teamwork. The goals, objectives, and activities in this course will introduce/reinforce these Core Values whenever appropriate.

**TOPIC OUTLINE**

1. History and Definition of Artificial Intelligence
2. AI Ethics
3. Bias, Privacy and Safety
4. Current Events in AI

5. Benefits of AI
6. Limitations of AI
7. The Turing Test
8. AI Mindset
9. Prompt Engineering
10. Machine Learning
11. Data Augmentation
12. Deep Learning
13. Neural Networks
14. Foundation Models
15. Generative AI
16. Language Learning Model
17. Chatbot
18. Deep Fake