



AI: Evolution/Application Undergraduate Course Information Guide

Course Number: CCS 240, 2 credits, 5 Weeks
Delivery Formats: Online Async

<u>Learning Outcomes</u>	<u>Learning Strategies and Resources</u>	<u>Learning Deliverables</u>
<u>Assessment/Grading</u>	<u>Course Schedule</u>	<u>Policies/PLA Credit</u>

Course Description

Artificial Intelligence (AI) is already changing commerce, communication, education, healthcare, security, transportation, and has touched just about every aspect of our lives. An understanding of AI and Machine Learning (ML) is quickly becoming a basic requirement in virtually every job description. In this 5-week course, students will learn the history of AI, how it has evolved to what it is today, and gain hands-on experience in how it can be applied to solve real-world problems. Students will be exposed to the theories behind search algorithms, data classification, and how to draw predictions from raw data. By the end of the course, students will have the knowledge and practical experience to define and create their own applications for AI and ML. The valuable techniques and materials from this course are applicable to virtually every occupation. No prior experience in computer programming or other prerequisites are required.

Learning Outcomes

After completing this course, you will be able to:

- Students will be exposed to the history of AI and develop useful AI applications.
- Describe the history of AI, name significant contributors, define AI.
- Know the glossary of term of AI.
- Answer the question "What is Agentic AI?" Give examples of strengths and weaknesses of AI.
- Explore Machine Learning and how it differs from human-generated software.
- Use AI to generate application software.
- Demonstrate how AI can be a powerful tool for certain daunting tasks.

[Back to Top](#)

Learning Strategies and Resources

The objective of this course is of the student to watch selected videos, lectures, and complete assigned readings to become familiar with artificial intelligence.

Students will use actual AI resources available online and will use AI to generate software applications that actually function. Students will develop confidence in their ability to use AI tools.

Students will also develop an understanding of what AI can and cannot do well. The final week will include the current developments in this rapidly changing environment .

Required Readings

Books and learning materials are available at the DePaul bookstore, at <http://depaul-loop.bnccollege.com>, or through alternative sources.

Stuart Russell, Peter Nordvig (2021) Artificial Intelligence: A Modern Approach. 4th Edition: Pearson, ISBN: 9780134671932, 0134671937.

Additional readings may be available on Electronic Reserve, at the [DePaul Library](#). Login to Ares Course Reserves and select the course. Log in using your Campus Connect User ID and password. You will then get a page listing the courses in which you're enrolled that have readings posted in Ares. Click on the title of this course and the list of our electronic reserve readings will be displayed.

[Back to Top](#)

Learning Deliverables

Students will participate in graded Discussions. Since the course is on-line and asynchronous, this is a substitute for normal classroom interaction and is very important. Weekly quizzes will ensure that students are keeping pace with the assigned ratings and videos. Students will use AI to create and debug actual software.

[Back to Top](#)

Assessment of Student Learning

Distribution of Grade Points

Graded Assignments	Percentage of Final Grade
Online Discussions	40%

Quizzes	20%
Project Milestones	20%
Final Project	20%

Grading Scale

A = 95 to 100	A- = 91 to 94	B+ = 88 to 90
B = 85 to 87	B- = 81 to 84	C+ = 77 to 80
C = 73 to 76	C- = 69 to 72	D+ = 65 to 68
D = 61 to 64	F = 60 or below	INC

[Back to Top](#)

Course Schedule

Week and Module Title or Theme	Readings / Activities	Graded Assignments
Module 1: Product Assessment	Read "Artificial Intelligence: A Modern Approach", Chapter 1, Introduction Read "Glossary of Terms" Watch Lecture 1 Watch assigned videos on AI and ML	Module One Discussion AI Product Assessment Project
Module 2: Tool Integration	Read "Artificial Intelligence: A Modern Approach", Chapter 2, "Intelligent Agents" Watch Lecture 2	Module Two Discussion AI Tool Integration Project

	Watch assigned videos on Intelligent Agents and Machine Learning	
Module 3: Software Generation	Read "Artificial Intelligence: A Modern Approach", Chapter 3, "Solving Problems by Searching" Watch Lecture 3 covering examples of Machine Learning Watch assigned videos on Training AI	Module Three Discussion AI Software Generation Project
Module 4: Flow Functions	Read "Artificial Intelligence: A Modern Approach", Chapter 7, "Logical Agents" Watch Lecture 4 (AI Environments, Tools, Testing) Watch assigned videos on the roadmaps of AI, ethics, and regulation of AI.	Module Four Discussion Module Four Content Quiz AI Agent Flow Diagram Project
Module 5: Final Project	Read "Artificial Intelligence: A Modern Approach", Chapter 16, "Making Simple Decisions" Use everything that you have learned in the previous modules Watch lecture 5: Speculations on the Future of AI	Module Five Content Quiz Final Project

[Back to Top](#)

Course Policies

For access to all SCPS and DePaul University academic policies, refer to the following links:

[SCPS Student Resources Website](#)

[DePaul Student Handbook](#)

The [D2L Course Website](#) for this course.

Course Syllabus

The official syllabus for this course that includes course dates, instructor information and quarter specific details will be provided by the course instructor by the start of the course and available on the course D2L website.

Course Registration

To find out when this course will be offered next, you can go to the [SCPS Registration website](#) for details on how to register for the course.

For information on how this course can apply to your program, contact your academic advisor.

School of Continuing and Professional Studies

Suite 1400, Daley Building, 14 E. Jackson Blvd., Chicago
Website: <https://scps.depaul.edu/>

Office hours: 9:00 am - 5:00 pm, Monday-Friday.
Telephone: 312-362-8001. General Email: scps@depaul.edu
For Advising Assistance, call (312) 362-5445 or email scpsadvising@depaul.edu

This document was updated 8-5-26.

[**Back to Top**](#)