

# APPLIED ARTIFICIAL INTELLIGENCE, CERTIFICATE PROGRAM

**College:** Daniel L. Goodwin College of Business

**Department:** Business

**Student Type:** Non Degree Seeking Undergraduate

**Degree:** Certificate

**Campus:** Lisle and Mesa Campus

AI requires more knowledge than simply reading a user guide, but graduate level programs in AI and Machine Learning often have significant pre-requisites in math and coding.

This program is designed to be an easy to understand and enjoyable introduction to AI, and it takes a unique approach towards integrating ChatGPT as a tutor to help learners through any areas that are new to them. There are no pre-requisites and no previous technical experience is required.

By the end of this certificate, learners will gain valuable exposure to both generative AI tools such as ChatGPT, as well as have a hands-on chance to explore conventional AI topics such as the related math and coding using an approach that is inclusive of learners from any background. The easiest possible way to learn the related math and coding involves a series of tools such as Google Colab, Jupyter Notebooks and math libraries, which are like advanced calculators. The approach of this program is to view all of these applications simply as tools and to aim to make the experience as enjoyable as possible and to help overcome any sense of intimidation that a person may feel.

The program also includes an introduction to various certifications that a person may choose to pursue, which can further enhance competitiveness in the job market, whether you are a working professional seeking to evolve, a recent college grad seeking to enhance your education, or you are simply interested in getting into the field of AI.

Learners who go through this program will gain beginning to intermediate level skills in:

ChatGPT and other similar tools  
 Making a bot  
 AI automation  
 Python  
 Google Colab  
 Data Science

One of the biggest changes since the recent introduction of ChatGPT has been its increasing sophistication, and its ability to not only be an advanced tutor, but also to be able to do much of the work in AI, as if it were a personal staff member. This phenomenon is re-writing the way AI is approached in the workplace, and it is critical to explore not just how ChatGPT can help you learn, but how it can do work for you. This program is extremely up to date, is updated on an ongoing basis, and it is designed to help learners from any background to evolve.

## CERTIFICATE SEQUENCE

It is recommended, but not required, to take the courses in sequence.

All courses for the certificate must be taken at Benedictine University. A

certificate in Applied Artificial Intelligence consists of 12 semester credit hours of coursework, with a grade of "C" or better, listed below.

Code	Title	Hours
BALT 4361	Fun with AI: Hands-On Intro to Artificial Intelligence and Text Prompting	3
BALT 4362	Make Your Own Bots: Automating Tasks with ChatGPT, RPA and Prompt Engineering	3
BALT 4363	Data Superpowers: Learning Python and AI Math In Context, with ChatGPT and Prompt Engineering	3
BALT 4364	Learning Conventional AI and Generative AI with Google Collab and ChatGPT	3
<b>Total Hours</b>		<b>12</b>

## Objectives

Students in the Certificate in Applied AI program will achieve the following student learning outcomes (SLO):

Student Learning Outcome 1: Gain a beginning to intermediate understanding of how generative AI tools such as ChatGPT can be used both as a learning resource in AI as well as being able to do work in AI; and gain beginning to intermediate knowledge of conventional AI concepts and knowledge such as the impact of AI on the workplace, AI ethics, the nature of automation of workplace tasks, the role of ChatGPT/Google Colab in making it easier to utilize Python and math for AI; work opportunities in AI.

- University SLO: 1. Disciplinary Competence and Skills; 5. Analytical Skills

Student Learning Outcome 2: Gain a beginning to intermediate understanding of how pursuit of applied AI knowledge can help the learner to add value in the workplace; understanding the capability of using generative AI and their strengths and limitations, and understanding where the capability of generative AI leaves off, and where the need for advanced understanding of AI may open doors for a person to go from using AI algorithms to being able to design AI algorithms; this includes understanding and competence to help a person be able to approach a master's degree program and evaluate its relevance to the workplace and a person's career.

- University SLO: 1. Disciplinary Competence and Skills; 5. Analytical Skills