BACHELOR OF SCIENCE

INFORMATION TECHNOLOGY



PROGRAM DESCRIPTION

Cleary's Bachelor of Science (BS) in IT: Artificial Intelligence emphasizes the development and application of broad knowledge, skills, and abilities to succeed in the rapidly changing technology environment. Specializing in AI, students will learn to develop and implement intelligent systems, empowering organizations to harness innovation for success. Graduates are prepared for impactful careers in AI development, data analysis, and software engineering, driving technological evolution across industries.

LEARNING OUTCOMES

- Analyze a complex computing problem and apply information technology principles and other relevant disciplines to identify solutions.
- Design, implement, and evaluate an information technology-based solution to meet a given set of requirements in the context of the program's discipline.
- Use systemic approaches to select, develop, apply, integrate, and administer secure information technologies to accomplish user goals.

Graduates with a Bachelor of Science in Information Technology and a major concentration in Artificial Intelligence are prepared for careers such as:

- · Computer and Information Analyst
- Data Analyst
- Business Intelligence Developer

- · Software Developer
- Software Architect
- Data Scientist

THE EIGHT ATTRIBUTES OF THE CLEARY MIND™

The Cleary Mind™ defines who we are and sets us apart from other universities. Students, whether online or on campus, embrace its principles throughout their studies, shaping their approach to thinking, leading, and living. By graduation, they're not only job-ready but they also excel as critical thinkers, problem solvers, effective communicators, and ethical leaders. Employers value Cleary graduates for exceeding expectations!





PERSUASION











ENTREPRENEURSHIP





CRITICAL THINKING

The Key Attributes Employers Seek on Students' Resume, NACE Center, 11/30/17. The Top 10 Traits Employers Want in Business School Graduates, GoodCall, 8/17/18. College vs Business Training: What Do Employers Want?, Wharton, University of Pennsylvania, 2/11/16. 8 Essential Skills Every Employer Looks For In Recent Graduates, Inc 10/13/15. What Employers Really Look For in Recent College Graduates, USA Today, 7/22/15. What Employers Are Looking For When Hiring Recent College Grads, Forbes, 7/6/15. New College Grads: Who employers want to hire, CBS News Money Watch, 1/20/15. What Employers Want From MBAs This Year, Poets & Quants. 5/19/14. The 10 Skills Employers Most Want In 2015 Graduates, Rorbes, 11/12/14. What Employers Want, GraduateOpportunities.com

Cleary University

BS in Information Technology with a Major Concentration in Artificial Intelligence – Curriculum Pathway* v1.0-1.1.25



Year One Fall Semester		
ENG 1000	English Composition	3.0
PHL 1200	Critical Thinking in an Illogical World	3.0
BUS 1000	The Business of Environmental Sustainability	3.0
TCM 1000	Business Arts Immersion	3.0
	Total Semester Credits	12.0

Year Two		
Fall Semester		
COM 1400	Speak Up!	3.0
ECO 2000	Economies and Economics II	3.0
	(Microeconomics)	
ACC 1000	Principles of Accounting and	3.0
	Economic Renaissance I	
ITS 1610	Introduction to Python	3.0
	Programming	
CIS 2100	Computer Operating Systems	3.0
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	Total Semester Credits	15.0

Year Three Fall Semester		
MGT 3400	Managing Projects and Processes in Organizations	3.0
DMA 4200	Data Analysis in Business	3.0
ITS 4310	Systems Operations, Architecture, and Automation	3.0
ITS 2710	Data Base Design and Implementation	3.0
CIS 2450	Fundamentals of Networking and Communications	3.0
	Total Semester Credits	15.0

Year Four Fall Semester		
MGT 4071	Organizational Behavior**	3.0
ITS 4320	Applications Development	3.0
CIS 2250	Fundamentals of User Interface Design	3.0
ITS 3061	Application and Integration of AI in IT Management and Data Analytics	3.0
ITS 3065	Application and Integration of AI in Cybersecurity	3.0
ELE	Elective Course	1.0
	Total Semester Credits	16.0

Spring Semester		
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Spring Semester		
LAW 2900	Business Law	3.0
GE ELE	General Education Elective Course [^]	3.0
ITS 1620	Introduction to UNIX/LINUX Programming	3.0
ITS 1710	Fundamentals of Data Structures	3.0
PMG 3380	Management of Information Technology Projects	3.0
CAR 1050	Navigating Academic and Life Challenges^^	1.0
	Total Semester Credits	16.0

Spring Semester		
GE NPW	Observation and Analysis of the Natural and	3.0
	Physical World Course	
GE PDW	Perspective on a Diverse World Course	3.0
CIS 3450	Network Structures and Administration	3.0
CIS 3610	Introduction to System and Network Security	3.0
ITS 4330	Strategic Integration of AI and Process Optimization	3.0
CAR 3050	Navigating Future Career and Life Challenges^^	1.0
	Total Semester Credits	16.0

Spring Semester		
PHL 4900	The Social Contract	3.0
ITS 4331	Al APIs and Systems Integration	3.0
ITS 4570	Strategic Organizational Use of Al	3.0
ITS 4800	Advanced Topics in Al	3.0
ITS 4900	Capstone: Information Technology Project	3.0
	Total Semester Credits	15.0
	Total Program Credits	120.0

All Students (See the Cleary University Catalog for further details)

Non-traditional Students (See the Cleary University Catalog for further details)

- ^Non-traditional students take LED 3010 Leadership Applications instead of the General Education Elective Course.
- ^^Non-traditional students do not take CAR 1050 and CAR 3050.

^{*}Students receiving transfer or prior learning credits may alter this curriculum pathway.

^{**}Required or elective course may be taken at the graduate level if a student plans to pursue a Cleary University graduate program.