

APPLIED ARTIFICIAL INTELLIGENCE (ONLINE)

The Applied Artificial Intelligence program equips students with the technical, ethical, and interdisciplinary foundations needed to design, deploy, and evaluate Artificial Intelligence systems in real-world contexts. Students engage in hands-on coursework that integrates computing, data science, and ethical reasoning, with opportunities to apply their learning through applied projects and practical experiences rather than purely theoretical research. Graduates emerge as thoughtful practitioners who combine technical competence with Christian-informed values, prepared to steward Artificial Intelligence responsibly in service to industry, society, and the common good.

Program Learning Outcomes

By fulfilling all of the course requirements for the Bachelor's of Art in Communication & Leadership, students will be able to:

1. Practical Software Development Skills: Demonstrate proficiency in designing, coding, testing, and maintaining software applications, with a focus on meeting real-world business and organizational needs.
2. Data Management and Analysis: Utilize database systems and data analysis techniques to store, retrieve, and interpret information, supporting sound decision-making and strategic planning in professional settings.
3. Web and Mobile Development Expertise: Develop web and mobile applications that are efficient, user-friendly, and responsive, ensuring optimal user experiences and alignment with organizational goals.
4. Integration of Christian Ethics and Technology: Address ethical and societal issues in computing by applying Christian values and professional codes of conduct, ensuring that technological solutions promote the common good and respect human dignity.
5. Collaboration and Communication in Technology Teams: Communicate technical concepts effectively to various audiences, work collaboratively in diverse teams, and contribute positively to project environments in remote and global contexts.
6. Adaptability to Emerging Technologies: Stay informed about emerging trends and technologies, and adapt quickly to changes in the field to remain effective in a fast-paced, ever-evolving industry.
7. Preparation for Graduate Studies or Professional Advancement: Build a strong foundation of applied computer science knowledge and skills that prepares graduates for advanced education or immediate entry into a wide range of computing-related careers.

Curriculum

Code	Title	Hours
Online Core Requirements (https://catalog.cuw.edu/undergraduate/university/acad-prog/post-trad/core/)		44
Major Requirements		58
Electives (15 credits of electives may be used for MSBA Fast Track)		18
Total Hours		120

Major Requirements

Code	Title	Hours
CSC 1070	Theory and Fundamentals of Computer Science	3
CSC 2000	Coding I - Fundamentals	3

CSC 2050	Coding II - Algorithms	3
CSC 2400	Machine Learning and Robotics	3
CSC 3010	Computational Dilemmas	3
CSC 3020	User Experience and Interactive Systems	3
CSC 3030	Database Fundamentals	3
CSC 3050	Operating Systems	3
CSC 3070	Software Engineering	3
CSC 3400	Artificial Intelligence	3
CSC 3500	Emerging Technologies in Artificial Intelligence	3
CSC 3600	Cybersecurity	3
CSC 4060	Advanced Database and Web Development	3
CSC 4410	Adv Artificial Intelligence	3
CSC 4900	Internship	1
CSC 4950	Capstone Project	3
COMM 3600	Artificial Intelligence Governance	3
PHIL 2110	Elementary Logic	3
PHIL 3700	Philosophy of Mind	3
PHIL 3100	The AI Dilemma: Ethical Issues in Artificial Intelligence	3
Total Hours		58

MSBA Fast Track for Applied Artificial Intelligence Majors

Code	Title	Hours
MSBA Fast Track for Applied Artificial Intelligence Majors (optional - 15 will replace 15 elective credits)		
Required Courses		
BUS 6300	Management Information Systems	
BUS 5130	Mastering Analytics and Decision Making	
BUAN 5000	Introduction to Coding, Programming, and Databases for Analytics	
BUAN 4850	Business Data Analytics Programming with Visualization	
BUAN 4900	Analytics and the Digital Economy	

Plan - Applied Artificial Intelligence (online)

Course	Title	Hours
Semester 1		
CCE 1020	Western Culture & Worldview (8-week Session I or II)	3
NATURAL WORLD SCIENCE (8-week Session I)		3
ENG 2100	College Writing (8-week Session I or II)	3
REL 1590	Heritage of Faith (8-week Session I or II)	3
HUMAN CREATIVITY & ESPRESSION (8-week Session II)		3
Hours		15
Semester 2		
CSC 1070	Theory and Fundamentals of Computer Science (8-week Session I)	3
COMMUNICATION & LANGUAGE (8-week Session I)		3
CCE 1030	Western Thought & Worldview (8-week Session I or II)	3
REL 2030	Biblical Theology (8-week Session I or II)	3
CSC 2000	Coding I - Fundamentals (8-week Session II)	3
Hours		15
Semester 3		
CSC 2050	Coding II - Algorithms (8-week Session I)	3
NATURAL WORLD MATHEMATICS (8-week Session I)		3
HHP 1115	Fit and Well (8-week Session I or II)	2

2 Applied Artificial Intelligence (ONLINE)

CSC 3010	Computational Dilemmas (8-week Session II)	3
CSC 3050	Operating Systems (8-week Session II)	3
ELECTIVE (8-week Session II)		3
Hours		17
Semester 4		
PHIL 2110	Elementary Logic (8-week Session I)	3
FAITH & LIFE (8-week Session I or II)		3
CCE 1040	Science & Humanity (8-week Session I or II)	3
CSC 2400	Machine Learning and Robotics (8-week Session I)	3
CSC 3030	Database Fundamentals (8-week Session II)	3
Hours		15
Semester 5		
CSC 3600	Cybersecurity (8-week Session I)	3
ELECTIVE (8-week Session I)		3
CSC 4060	Advanced Database and Web Development (8-week Session II)	3
PHIL 3700	Philosophy of Mind (8-week Session II)	3
SOCIETY & CULTURE (8-week Session I or II)		3
Hours		15
Semester 6		
CSC 3070	Software Engineering (8-week Session I)	3
CSC 3500	Emerging Technologies in Artificial Intelligence (8-week Session I)	3
COMM 3600	Artificial Intelligence Governance (8-week Session II)	3
CSC 3400	Artificial Intelligence (8-week Session II)	3
CSC 4900	Internship (8-week Session I or II)	1
Hours		13
Semester 7		
CSC 3020	User Experience and Interactive Systems (8-week Session I)	3
HUMAN BEINGS SOCIAL WORLD (8-week Session I or II)		3
ELECTIVE (8-week Session II)		3
ELECTIVE (8-week Session II)		3
CSC 4410	Adv Artificial Intelligence (8-week Session II)	3
Hours		15
Semester 8		
PHIL 3100	The AI Dilemma: Ethical Issues in Artificial Intelligence (8-week Session I)	3
SOCIETY & CULTURE (8-week Session I or II)		3
ELECTIVE (8-week Session II)		3
CSC 4950	Capstone Project (8-week Session II)	3
ELECTIVE (8-week Session II)		3
Hours		15
Total Hours		120

Course options and schedule are subject to change.

Plan - MSBA Fast Track for Applied Artificial Intelligence Majors (online)

Course	Title	Hours
Semester 1		
CCE 1020	Western Culture & Worldview (8-week Session I or II)	3
NATURAL WORLD SCIENCE (8-week Session I)		3
ENG 2100	College Writing (8-week Session I or II)	3
REL 1590	Heritage of Faith (8-week Session I or II)	3
HUMAN CREATIVITY & ESPRESSION (8-week Session II)		3
Hours		15
Semester 2		
CSC 1070	Theory and Fundamentals of Computer Science (8-week Session I)	3
COMMUNICATION & LANGUAGE (8-week Session I)		3
CCE 1030	Western Thought & Worldview (8-week Session I or II)	3

REL 2030	Biblical Theology (8-week Session I or II)	3
CSC 2000	Coding I - Fundamentals (8-week Session II)	3
Hours		15
Semester 3		
CSC 2050	Coding II - Algorithms (8-week Session I)	3
NATURAL WORLD MATHEMATICS (8-week Session I)		3
HHP 1115	Fit and Well (8-week Session I or II)	2
CSC 3010	Computational Dilemmas (8-week Session II)	3
CSC 3050	Operating Systems (8-week Session II)	3
ELECTIVE (8-week Session II)		3
Hours		17
Semester 4		
PHIL 2110	Elementary Logic (8-week Session I)	3
FAITH & LIFE (8-week Session I or II)		3
CCE 1040	Science & Humanity (8-week Session I or II)	3
CSC 2400	Machine Learning and Robotics (8-week Session I)	3
CSC 3030	Database Fundamentals (8-week Session II)	3
Hours		15
Semester 5		
CSC 3600	Cybersecurity (8-week Session I)	3
BUAN 4850	Business Data Analytics Programming with Visualization (8-week Session I)	3
CSC 4060	Advanced Database and Web Development (8-week Session II)	3
PHIL 3700	Philosophy of Mind (8-week Session II)	3
SOCIETY & CULTURE (8-week Session I or II)		3
Hours		15
Semester 6		
CSC 3070	Software Engineering (8-week Session I)	3
CSC 3500	Emerging Technologies in Artificial Intelligence (8-week Session I)	3
COMM 3600	Artificial Intelligence Governance (8-week Session II)	3
CSC 3400	Artificial Intelligence (8-week Session II)	3
CSC 4900	Internship (8-week Session I or II)	1-3
Hours		13
Semester 7		
CSC 3020	User Experience and Interactive Systems (8-week Session I)	3
BUAN 5000	Introduction to Coding, Programming, and Databases for Analytics (8-week Session I)	3
BUS 5130	Mastering Analytics and Decision Making (8-week Session II)	3
BUS 6300	Management Information Systems (8-week Session II)	3
CSC 4410	Adv Artificial Intelligence (8-week Session II)	3
Hours		15
Semester 8		
PHIL 3100	The AI Dilemma: Ethical Issues in Artificial Intelligence (8-week Session I)	3
SOCIETY & CULTURE (8-week Session I or II)		3
CSC 4950	Capstone Project (8-week Session II)	3
BUAN 4900	Analytics and the Digital Economy (8-week Session II)	3
HUMAN BEINGS SOCIAL WORLD (8-week Session I or II)		3
Hours		15
Total Hours		120

Course options and schedule are subject to change.