Department	International College of Liberal Arts

Semester	Fall 2025	Year Offered (Odd/Even/Every Year)	Every Year

Course Number	DATA/QREA310

Course Title	AI in Action: Real-World Applications

Prerequisites	DATA/QREA280 AI Discovery: Foundations & Discovery

Course Instructor	RICKETTS John	Year Available (Grade Level)	3

Subject Area	Data Science	Number of Credits	3

Class Style	Lecture	Language of instruction	English

(NOTE 1) Depending on the class size and the capacity of the facility, we may not be able to accommodate all students who wish to register for the course

Course Description	AI in Action engages students in applying their AI knowledge to address real-world issues & opportunities. Partnering with various organizations, students will work on projects that have practical implications, ranging from business solutions, and co- creation to real world social impact initiatives. This course emphasizes interdisciplinary collaboration, allowing students from diverse academic backgrounds to contribute their unique perspectives & skills.
Class plan based on course evaluation from previous academic year	This undergraduate curriculum in AI consists of two main courses: AI Discovery & AI in Action. The combined courses provide students with a strong foundation in AI fundamentals, foster student-directed exploration of AI capabilities, and apply these skills to real-world problems. The curriculum is suitable for students with both technical & liberal arts backgrounds, ensuring an interdisciplinary approach to AI usage and application. After completing students will be able: 1. To assess the importance & focus upon AI in any given setting. 2. Utilize AI for personal & professional use. 3. Work in interdisciplinary & diverse teams to deliver capability and value. Learning Goals: To equip students with the knowledge, skills, and confidence to effectively integrate AI into various career paths and interdisciplinary contexts. - Better understand AI principles and techniques - Better understand AI's impact on society and ethics - Better skilled at using AI tools and frameworks - Better skilled at independent research and exploration in AI - Better skilled at sharing knowledge and collaborating in teams - Better skilled at applying AI to real-world problems - Better skilled at project management and communication - Better skilled at working in interdisciplinary and diverse teams - Better skilled at producing tangible AI-driven outcomes - More adept at critical thinking and creative problem-solving in AI contexts Integration & Interdisciplinary Approach Both courses emphasize collaboration & knowledge sharing, and are designed to be taken together. AI Discovery focuses on building a strong foundation & fostering a community of learners exploring AI's potential. AI in Action takes this foundation into the real world, where students apply their skills to make a tangible impact. The interdisciplinary nature of the curriculum ensures that students from both technical & liberal arts backgrounds can contribute meaningfully, leveraging their diverse skills & perspectives. By the end of this curriculum, students will have not only a deep understanding of AI principles but also practical experience in applying AI to solve real-world problems. This prepares participants for careers in various fields that increasingly rely on AI technology, to drive innovation and/or sustainability.
Course related to the instructor's practical experience (Summary of experience)	Academic & Industry

Learning Goals	Course Objectives: - Apply AI techniques to solve real-world problems. - Collaborate with external partners to understand & address their needs. - Develop project management & communication skills. - Produce tangible outcomes that demonstrate the impact of AI.

iCLA Diploma Policy	DP1／DP2／DP3／DP4

iCLA Diploma Policy

(DP1) To Value Knowledge – Having high oral and written communication skills to be able to both comprehend and transfer knowledge

(DP2) To Be Able to Adapt to a Changing World – Having critical, creative, problem-solving, intercultural skills, global and independent mindset to adopt to a changing world

(DP3) To Believe in Collaboration – Having a disposition to work effectively and inclusively in teams

(DP4) To Act from a Sense of Personal and Social Responsibility – Having good ethical and moral values to make positive impacts in the world

Active Learning Methods	Problem-Based Learning／Flipped Classroom／Discussion, Debate／Group Work／Presentation／Workshop, Fieldwork				
More details/supplemental information on Active Learning Methods	As required				
Use of ICT	May require use of additional AI software – estimate approx. $20/month				
Contents of class preparation and review	As required	Hours expected to be spent preparing for class (hours per week)	2 hours	Hours expected to be spent on class review (hours per week)	3 hours
Feedback Methods	As required				

Grading Criteria		
Grading Methods	Grading Weights	Grading Content
in class participation	40%	
in class quizzes	30%	
Team Project	30%	

Required Textbook(s)	We make our own reading materials/repository – the field is moving very quickly
Other Reading Materials/URL	As Required
Plagiarism Policy	Heavy AI usage
Other Additional Notes (Outline crucial policies and info not mentioned above)	As required

(NOTE 2) Class schedule is subject to change

Class Schedule	
Class Number	Content
Class 1	Weeks 1-4: Preparation & Partner Engagement - Introduction to course objectives & structure
Class 2	Weeks 1-4: Preparation & Partner Engagement - Introduction to course objectives & structure
Class 3	Weeks 1-4: Preparation & Partner Engagement - Workshops on project management & stakeholder engagement
Class 4	Weeks 1-4: Preparation & Partner Engagement - Workshops on project management & stakeholder engagement
Class 5	Weeks 1-4: Preparation & Partner Engagement - Identification & introduction to partner organizations
Class 6	Weeks 1-4: Preparation & Partner Engagement - Identification & introduction to partner organizations
Class 7	Weeks 1-4: Preparation & Partner Engagement - Formation of interdisciplinary project teams

Class 8	Weeks 1-4: Preparation & Partner Engagement - Formation of interdisciplinary project teams
Class 9	Weeks 5-12: Project Development - Project scoping & planning with partner organizations
Class 10	Weeks 5-12: Project Development - Project scoping & planning with partner organizations
Class 11	Weeks 5-12: Project Development - Implementation of AI solutions
Class 12	Weeks 5-12: Project Development - Implementation of AI solutions
Class 13	Weeks 5-12: Project Development - Implementation of AI solutions
Class 14	Weeks 5-12: Project Development - Implementation of AI solutions
Class 15	Weeks 5-12: Project Development - Implementation of AI solutions - Regular check-ins with partners & course instructors
Class 16	Weeks 5-12: Project Development - Implementation of AI solutions - Regular check-ins with partners & course instructors
Class 17	Weeks 5-12: Project Development - Implementation of AI solutions - Regular check-ins with partners & course instructors
Class 18	Weeks 5-12: Project Development - Implementation of AI solutions - Regular check-ins with partners & course instructors
Class 19	Weeks 5-12: Project Development - Implementation of AI solutions - Regular check-ins with partners & course instructors - Peer review & feedback sessions
Class 20	Weeks 5-12: Project Development - Implementation of AI solutions - Regular check-ins with partners & course instructors - Peer review & feedback sessions
Class 21	Weeks 5-12: Project Development - Implementation of AI solutions - Regular check-ins with partners & course instructors - Peer review & feedback sessions

Note: The content for Class 9 includes "4 / 5" displayed centrally within the cell.

Class 22	Weeks 5-12: Project Development - Implementation of AI solutions - Regular check-ins with partners & course instructors - Peer review & feedback sessions
Class 23	Weeks 5-12: Project Development - Implementation of AI solutions - Regular check-ins with partners & course instructors - Peer review & feedback sessions
Class 24	Weeks 5-12: Project Development - Implementation of AI solutions - Regular check-ins with partners & course instructors - Peer review & feedback sessions
Class 25	Weeks 5-12: Project Development - Implementation of AI solutions - Regular check-ins with partners & course instructors - Peer review & feedback sessions
Class 26	Weeks 5-12: Project Development - Implementation of AI solutions - Regular check-ins with partners & course instructors - Peer review & feedback sessions
Class 27	Weeks 13-14: Presentation & Reflection - Final project presentations to partners & class - Reflection on project experiences & learning outcomes - Compilation of project reports & documentation
Class 28	Weeks 13-14: Presentation & Reflection - Final project presentations to partners & class - Reflection on project experiences & learning outcomes - Compilation of project reports & documentation
Class 29	Weeks 13-14: Presentation & Reflection - Final project presentations to partners & class - Reflection on project experiences & learning outcomes - Compilation of project reports & documentation
Class 30	Weeks 13-14: Presentation & Reflection - Final project presentations to partners & class - Reflection on project experiences & learning outcomes - Compilation of project reports & documentation