AI-DRIVEN CONSTRUCTION MANAGEMENT (M.S.)

This program aims to prepare students to lead the AI-driven transformation of the construction industry. It equips graduates with advanced technical and managerial skills to optimize productivity, safety, and sustainability across the construction lifecycle. Additionally, the program develops practical skills in deploying AI-driven tools such as automation, robotics, digital twins, and predictive analytics for smarter construction project planning and execution, fosters innovative, ethical, and data-informed decision-making to address complex challenges in an increasingly intelligent built environment.

The Master of Science in AI-Driven Construction Management is an online program. The degree will be offered under the following option:

Plan C (Coursework): Thirty credits of coursework in an approved Plan of Work, including 15 credits of required courses and 15 credits of elective courses.

All coursework must be completed in accordance with the regulations of the Graduate School (https://bulletins.wayne.edu/graduate/general-information/academic-regulations/) and the James and Patricia Anderson College of Engineering (https://bulletins.wayne.edu/graduate/college-engineering/academic-regulations/).

Code	Title	Credits
Required Courses		
CMT 7010	Applications of AI in Construction Management	3
CMT 7030	Building Information Modeling	3
CMT 7050	VR Technologies in Construction Management	3
CMT 7080	Applications of Machine Learning & Data Analytics in Construction Management	3
CMT 5060	Planning and Scheduling	3
Elective Courses		
Select 15 credits from the following:		
CMT 5030	Facilities and Management Principles	3
CMT 5040	Residential Construction Management	3
CMT 5050	Construction Field Operations	3
CMT 5070	Mechanical and Electrical Systems in Buildings	3
CMT 5080	Construction Management Law	3
CMT 7020	Construction Safety Management	3
CMT 7040	Lean Construction Management	3
CMT 7060	Risk Management in Construction	3
CMT 7070	Construction Cost Estimating	3
Total Credits		30