Generative AI Systems, Graduate Certificate (Online)

The Online Graduate Certificate in Generative AI Systems provides advanced technical training in one of the most rapidly evolving areas of artificial intelligence and machine learning. Designed for highly technical learners, this fully online program aims to prepare students to design, deploy, and optimize cutting-edge generative AI systems across diverse industries and applications.

Through a rigorous curriculum that balances mathematical foundations with hands-on practice, students engage directly with large-scale data, real generative AI frameworks, and applied natural language processing methods. The program emphasizes experiential learning, enabling professionals to immediately apply new skills to workplace challenges in automation, infrastructure, healthcare, manufacturing, and data-driven decision making.

Program Requirements

Required Core Courses

Code	Title	Hours
DADS 5200	Mathematics for Machine Learning	4
DADS 5250	Generative AI in Practice	4
DADS 7650	Deep Generative Methods	4
IE 7500	Applied Natural Language Processing in Engineering	4
or DADS 7500	Natural Language Processing for Interdisciplinary Applications	

Program Credit /GPA Requirements

16 total semester hours required
Minimum 3.000 GPA required