

MS in Applied Data Science and AI - Sample Course Sequence

All classes are 4 credit hours. The program is a total of 48 credit hours

There are many pathways through the MS in Applied Data Science and Al program. Your pathway will depend on prior learning you come in, whether you are taking the program as a full-time or part-time student as well as your start date.

Below is one sample path through the program as a full-time student. These schedules and courses offered may not be possible each year and offerings may vary. You will work with the Data Science and Al Student Success Manager to customize your plan.

- This does not account for credit for prior learning or certificate-based course substitutions
- This is a sample schedule with the minium course offerings and additional course schedules may vary from term to term
- International Students will need to work with their Student Success Advisor as they follow different rules for online and in-person courses

Hybrid Roadmap

Example for a full-time student

 $Students\ can\ complete\ their\ degree\ requierements\ taking\ one\ class\ in-person\ and\ one\ online\ each\ quarter$

	YEAR 1			
	Autumn	Winter	Spring	Summer
Autumn Start	Foundations in Python Programming COMP 3005	Python Software Development COMP 3006	Machine Learning COMP 4432	Database Organization and Management I COMP 3421
	Essential Math for Applied Data Science & AI COMP 3009	Intro to Probability & Statistics for Data Science & AI COMP 4441	Data Visualization COMP 4433	Elective
	8 credit hours	8 credit hours	8 credit hours	8 credit hours

Autumn	Winter	Spring
Deep Learning: Model Design & Application COMP 4531	Elective	
Elective	Elective	
8 credit hours	8 credit hours	48 Credit Hours

YEAR 2

Winter Start		Foundations in Python Programming COMP 3005	Python Software Development COMP 3006	Machine Learning COMP 4432
		Essential Math for Applied Data Science & Al COMP 3009	Intro to Probability & Statistics for Data Science & Al COMP 4441	Data Visualization COMP 4433
	8 credit hours	8 credit hours	8 credit hours	8 credit hours

		48 Credit Hours
Database Organization and Management I COMP 3421	Elective	Elective
Deep Learning: Model Design & Application COMP 4531	Elective	Elective

Online Roadmap

Example for a full-time student

Students can complete their degree requirements taking only online courses each quarter

	YEAR 1			
	Autumn	Winter	Spring	Summer
Autumn Start	Foundations in Python Programming COMP 3005	Python Software Development COMP 3006	Elective	Machine Learning COMP 4432
	Essential Math for Applied Data Science & Al COMP 3009	Intro to Probability & Statistics for Data Science & Al COMP 4441	Data Visualization COMP 4433	Elective
	8 credit hours	8 credit hours	8 credit hours	8 credit hours

	YEAR 2	
Autumn	Winter	Spring
Deep Learning: Model Design & Application COMP 4531	Elective	
Database Organization and Management I COMP 3421	Elective	
8 credit hours	8 credit hours	48 Credit Hours

Winter		Foundations in Python Programming COMP 3005	Python Software Development COMP 3006	Machine Learning COMP 4432
Start		Essential Math for Applied Data Science & AI COMP 3009	Intro to Probability & Statistics for Data Science & AI COMP 4441	Elective
	8 credit hours	8 credit hours	8 credit hours	8 credit hours

Deep Learning: Model Design & Application COMP 4531	Elective	Data Visualization COMP 4433
Database Organization and Management I COMP 3421	Elective	Elective
8 credit hours	8 credit hours	48 Credit Hours