

Bachelor of Science in Data Science and Artificial Intelligence Model Study Plan (2024-2025 Cohort onwards)

For Students Admitted to the University from the Fall Semester

Total Degree Credit hours: 120

Semester	Course Code	Course Title	CR	Course type	Semester	Course Code	Course Title	CR	Course type
Year 1 (Fall)	LEAD101	Academic English for Humanities and STEM	3	Gen. Ed. Theme 2: Academic Language Proficiency	2 (Spring)	STAT101	Probability and Statistics	3	Generalization
	MA10101	Calculus I	3	Gen. Ed. Theme 2: Academic Language Proficiency		MA10101	Calculus I	3	Generalization
	CISP119	Algorithms and Problem Solving	3	Gen. Ed. Theme 2: Academic Language Proficiency		CISP119	Object Oriented Programming	3	Generalization
	MA10102	Calculus II	3	Gen. Ed. Theme 2: Academic Language Proficiency		MA10102	Calculus II	3	Generalization
Year 2 (Fall)	CISP123	Data Structures and Algorithms	3	Specialization	4 (Spring)	CISP146	Database Systems	3	Specialization
	MA10103	Special Linear Algebra	3	Specialization		MA10103	Analysis of Algorithms	3	Specialization
	MA10104	Computational Mathematics	3	Specialization		CISP123	Introduction to Statistical Computing	3	Specialization
	CISP124	Data Exploration and Analysis	3	Specialization		CISP124	Introduction to Data Science	3	Specialization
Year 3 (Fall)	CISP101	Artificial Intelligence	3	Specialization	6 (Spring)	CISP120	Data Mining	3	Specialization
	CISP102	Computer Vision	3	Specialization		ISP124	Cloud Computing Fundamentals	3	Specialization
	CISP103	Machine Learning	3	Specialization		CISP125	Machine Learning	3	Specialization
	CISP104	Deep Learning	3	Specialization		CISP126	Robotics	3	Specialization
Year 4 (Fall)	MA10105	Optimization Methods	3	Support course	8 (Spring)	ISP125	Senior Graduation Project II	3	Specialization
	CISP105	Student choice	3	Support course		ISP126	Student choice	3	Support course
	CISP106	Student choice	3	Support course		ISP127	Biography of the Prophet "Muhammad"	3	Gen. Ed. Theme 2: Academic Language Proficiency
	CISP107	Student choice	3	Support course		ISP128	Student choice	3	Support course
Year 5 (Fall)	ISP1495	Internship	6	Major Elective					

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Semester	Course Code	Course Title	CR	Course type	Semester	Course Code	Course Title	CR	Course type
Year 1 (Fall)	LEAD101	Academic English for Humanities and STEM	3	Gen. Ed. Theme 2: Academic Language Proficiency	2 (Spring)	STAT101	Probability and Statistics	3	Generalization
	MA10101	Calculus I	3	Gen. Ed. Theme 2: Academic Language Proficiency		MA10101	Calculus I	3	Generalization
	CISP119	Algorithms and Problem Solving	3	Gen. Ed. Theme 2: Academic Language Proficiency		CISP119	Object Oriented Programming	3	Generalization
	MA10102	Calculus II	3	Gen. Ed. Theme 2: Academic Language Proficiency		MA10102	Calculus II	3	Generalization
Year 2 (Fall)	CISP123	Data Structures and Algorithms	3	Specialization	4 (Spring)	CISP146	Database Systems	3	Specialization
	MA10103	Special Linear Algebra	3	Specialization		MA10103	Analysis of Algorithms	3	Specialization
	MA10104	Computational Mathematics	3	Specialization		CISP123	Introduction to Statistical Computing	3	Specialization
	CISP124	Data Exploration and Analysis	3	Specialization		CISP124	Introduction to Data Science	3	Specialization
Year 3 (Fall)	CISP101	Artificial Intelligence	3	Specialization	6 (Spring)	CISP120	Data Mining	3	Specialization
	CISP102	Computer Vision	3	Specialization		ISP124	Cloud Computing Fundamentals	3	Specialization
	CISP103	Machine Learning	3	Specialization		CISP125	Machine Learning	3	Specialization
	CISP104	Deep Learning	3	Specialization		CISP126	Robotics	3	Specialization
Year 4 (Fall)	MA10105	Optimization Methods	3	Support course	8 (Spring)	ISP125	Senior Graduation Project II	3	Specialization
	CISP105	Student choice	3	Support course		ISP126	Student choice	3	Support course
	CISP106	Student choice	3	Support course		ISP127	Biography of the Prophet "Muhammad"	3	Gen. Ed. Theme 2: Academic Language Proficiency
	CISP107	Student choice	3	Support course		ISP128	Student choice	3	Support course
Year 5 (Fall)	ISP1495	Internship	6	Major Elective					