

## MSDS Program Plan of Study

**Note: Plan of Study must be approved by the student's Advisor**

### Student Information

Name \_\_\_\_\_ Laker ID \_\_\_\_\_

Email \_\_\_\_\_ Phone \_\_\_\_\_

Advisor \_\_\_\_\_

### Prerequisite Courses Needed

CSCI XXXX \_\_\_ CSCI XXXX \_\_\_ CSCI XXXX \_\_\_ CSCI XXXX \_\_\_

		Course ID	Course Title	Sem./Year	Grade	Credits
<b>Core Courses</b> (12 credit hours)	Students must take all the 4 core courses	CSCI 5101	Foundations of Info. Sys. Secur. & Ethics (3)	Fall		3
		CSCI 5112	System Analysis and Design (3)	Fall		3
		CSCI 5201	Database Theory and Design (3)	Spring		3
		CSCI 5317	Operation Systems Admin & Security (3)	Spring		3
<b>Select one concentration</b> (12 credit hours)	Data Management and Intelligence (select 4 courses)	CSCI 6201	Data Management for Analytics (3)			
		CSCI 6202	Data Mining and Data Warehousing (3)			
		CSCI 6307	Foundation of AI and Deep Learning (3)	Fall		
		CSCI 6308	Cloud Computing (3)	Spring		
		CSCI 6433	Web App Development (3)	Fall		
		CSCI 6093	Adv. Topics in Info. Systems (3)	Spring		
	Knowledge & Information Systems (select 4 courses)	CSCI 6012	Information Risk Management (3)	Spring		
		CSCI 6307	Foundation of AI and Deep Learning (3)	Fall		
		CSCI 6433	Web App Development (3)	Fall		
		CSCI 6812	Data Science (3)			
		CSCI 6820	Knowledge Engineering (3)			
		CSCI 6093	Adv. Topics in Info. Systems (3)	Spring		
	Health Informatics (select 4 courses)	CSCI 6443	Digital Transformation (3)			
		CSCI 6701	Intro. To Health Informatics (3)			
		CSCI 6705	Foundations of Clinical Process & Workflows (3)			
		CSCI 6710	Healthcare Analytics and Applications (3)			
HCMG 5100		Health Systems Administration (3)	Fall			
HCMG 6100		Information Mgmt.-Health Care (3)	Fall/Spring			
CSCI 6093	Adv. Topics in Information Systems	Spring				
<b>Research techniques</b> (3 credit hours)		CSCI 6574	Research Techniques (3)	Fall/Spring		3
<b>Select one track</b> (3 credit hours)	Project Track	CSCI 6599	Special Project (3)	Fall/Spring		
	Thesis Track	CSCI 6600	Thesis (3)	Fall/Spring		
<b>Total Credits</b>						<b>30</b>

Note:

1. Take CSCI 6574 in the first semester if you plan to complete in 3 semesters. CSCI 6574 is a prerequisite for CSCI 6599/6600.
2. Identify a CSIT professor to serve as supervisor for you to take CSCI 6600 or CSCI 6599. This should be done as early as possible.
3. CSCI 6600 or CSCI 6599 must be scheduled in your last semester of the graduate program.

V. 08/28/2024

**MSDS Program Recommended Sequences of Courses for 3 Semester Completion**

<b>Data Management &amp; Intelligence Concentration</b>		<b>Knowledge &amp; Information Systems Concentration</b>		<b>Health Informatics Concentration</b>	
<b>Fall Semester</b>		<b>Fall Semester</b>		<b>Fall Semester</b>	
CSCI 5101	Fndn Info Sys Sec Ethics	CSCI 5101	Fndn Info Sys Sec Ethics	CSCI 5101	Fndn Info Sys Sec Ethics
CSCI 5112	Sys Analysis & Design	CSCI 5112	Sys Analysis & Design	CSCI 5112	Sys Analysis & Design
CSCI 6307	Fndn AI & Deep Learn	CSCI 6307	Fndn AI & Deep Learn	HCMG 5100	Health Sys Adm
CSCI 6574	Research Techniques	CSCI 6574	Research Techniques	CSCI 6574	Research Techniques
<b>Spring Semester</b>		<b>Spring Semester</b>		<b>Spring Semester</b>	
CSCI 5201	DB Theory & Design	CSCI 5201	DB Theory & Design	CSCI 5201	DB Theory & Design
CSCI 5317	OS Admin & Security	CSCI 5317	OS Adm & Sec	CSCI 5317	OS Admin & Security
CSCI 6093	Adv Topics in Info Sys	CSCI 6093	Adv Topics in Info Sys	CSCI 6093	Adv Topics in Info Sys
CSCI 6308	Cloud Computing	CSCI 6012	Info Risk Mgmt	CSCI 6701	Intro to Health Inform
<b>Fall Semester</b>		<b>Fall Semester</b>		<b>Fall Semester</b>	
CSCI 6433	Web App Dev	CSCI 6433	Web App Dev are	HCMG 6100	Info Mgmt Health Care
CSCI 6599/ CSCI 6600	Spec Project/Thesis	CSCI 6599/ CSCI 6600	Spec Project/Thesis	CSCI 6599/ CSCI 6600	Spec Project/Thesis

<b>Data Management &amp; Intelligence Concentration</b>		<b>Knowledge &amp; Information Systems Concentration</b>		<b>Health Informatics Concentration</b>	
<b>Fall Semester</b>		<b>Fall Semester</b>		<b>Fall Semester</b>	
CSCI 5101	Fndn Info Sys Sec Ethics	CSCI 5101	Fndn Info Sys Sec Ethics	HCMG 5100	Health Sys Adm
CSCI 6574	Research Techniques	CSCI 6574	Research Techniques	CSCI 6574	Research Techniques
<b>Spring Semester</b>		<b>Spring Semester</b>		<b>Spring Semester</b>	
CSCI 5201	DB Theory & Design	CSCI 5201	DB Theory & Design	CSCI 5201	DB Theory & Design
CSCI 5317	OS Admin & Security	CSCI 5317	OS Adm & Sec	CSCI 5317	OS Admin & Security
CSCI 6093	Adv Topics in Info Sys	CSCI 6093	Adv Topics in Info Sys	CSCI 6093	Adv Topics in Info Sys
CSCI 6308	Cloud Computing	CSCI 6012	Info Risk Mgmt	CSCI 6701	Intro to Health Inform
<b>Fall Semester</b>		<b>Fall Semester</b>		<b>Fall Semester</b>	
CSCI 5112	Sys Analysis & Design	CSCI 5112	Sys Analysis & Design	CSCI 5101	Fndn Info Sys Sec Ethics
CSCI 6307	Fndn AI & Deep Learn	CSCI 6307	Fndn AI & Deep Learn	CSCI 5112	Sys Analysis & Design
CSCI 6433	Web App Dev	CSCI 6433	Web App Dev	HCMG 6100	Info Mgmt Health Care
CSCI 6599/ CSCI 6600	Spec Project/Thesis	CSCI 6599/ CSCI 6600	Spec Project/Thesis	CSCI 6599/ CSCI 6600	Spec Project/Thesis

<b>Data Management &amp; Intelligence Concentration</b>		<b>Knowledge &amp; Information Systems Concentration</b>		<b>Health Informatics Concentration</b>	
<b>Fall Semester</b>		<b>Fall Semester</b>		<b>Fall Semester</b>	
CSCI 5101	Fndn Info Sys Sec Ethics	CSCI 5101	Fndn Info Sys Sec Ethics	CSCI 5101	Fndn Info Sys Sec Ethics
CSCI 5112	Sys Analysis & Design	CSCI 5112	Sys Analysis & Design	HCMG 5100	Health Sys Adm
CSCI 6574	Research Techniques	CSCI 6574	Research Techniques	CSCI 6574	Research Techniques
<b>Spring Semester</b>		<b>Spring Semester</b>		<b>Spring Semester</b>	
CSCI 5317	OS Adm & Sec	CSCI 5317	OS Adm & Sec	CSCI 5201	DB Theory & Design
CSCI 5701	Intro to Cybersec	CSCI 5701	Intro to Cybersec	CSCI 5317	OS Adm & Sec
CSCI 6093	Adv Topics in Info	CSCI 6093	Adv Topics in Info Sys	CSCI 6093	Adv Topics in Info Sys
CSCI 6308	SysCloud Computing	CSCI 6012	Intro to Risk Mgmt	CSCI 6701	Intro to Health Inform
<b>Fall Semester</b>		<b>Fall Semester</b>		<b>Fall Semester</b>	
CSCI 6307	Fndn AI & Deep Learn	CSCI 6307	Fndn AI & Deep Learn	CSCI 5112	Sys Analysis & Design
CSCI 6433	Web App Dev	CSCI 6433	Web App Dev	HCMG 6100	Info Mgmt Health Care
CSCI 6599/ CSCI 6600	Spec Project/Thesis	CSCI 6599/ CSCI 6600	Spec Project/Thesis	CSCI 6599/ CSCI 6600	Spec Project/Thesis

Data Management & Intelligence Concentration		Knowledge & Information Systems Concentration		Health Informatics Concentration	
Spring Semester		Spring Semester		Spring Semester	
CSCI 5201	DB Theory & Design	CSCI 5201	DB Theory & Design	CSCI 5201	DB Theory & Design
CSCI 5317	OS Adm & Sec	CSCI 5317	OS Adm & Sec	CSCI 5317	OS Adm & Sec
CSCI 6093	Adv Topics in Info Sys	CSCI 6093	Adv Topics in Info Sys	CSCI 6093	Adv Topics in Info Sys
CSCI 6574	Research Techniques	CSCI 6574	Research Techniques	CSCI 6574	Research Techniques
Fall Semester		Fall Semester		Fall Semester	
CSCI 5101	Fndn Info Sys Sec Ethics	CSCI 5101	Fndn Info Sys Sec Ethics	CSCI 5101	Fndn Info Sys Sec Ethics
CSCI 5112	Sys Analysis & Design	CSCI 5112	Sys Analysis & Design	CSCI 5112	Sys Analysis & Design
CSCI 6307	Fndn AI & Deep Learn	CSCI 6307	Fndn AI & Deep Learn	HCMG 5100	Health Sys Adm
CSCI 6433	Web App Dev	CSCI 6433	Web App Dev	HCMG 6100	Info Mgmt Health Care
Spring Semester		Spring Semester		Spring Semester	
CSCI 6308	Cloud Computing	CSCI 6012	Info Risk Mgmt	CSCI 6701	Intro to Health Inform
CSCI 6599/ CSCI 6600	Spec Project/Thesis	CSCI 6599/ CSCI 6600	Spec Project/Thesis	CSCI 6599/ CSCI 6600	Spec Project/Thesis

Data Management & Intelligence Concentration		Knowledge & Information Systems Concentration		Health Informatics Concentration	
Spring Semester		Spring Semester		Spring Semester	
CSCI 5201	DB Theory & Design	CSCI 5201	DB Theory & Design	CSCI 5201	DB Theory & Design
CSCI 6574	Research Techniques	CSCI 6574	Research Techniques	CSCI 6574	Research Techniques
Fall Semester		Fall Semester		Fall Semester	
CSCI 5101	Fndn Info Sys Sec Ethics	CSCI 5101	Fndn Info Sys Sec Ethics	CSCI 5101	Fndn Info Sys Sec Ethics
CSCI 5112	Sys Analysis & Design	CSCI 5112	Sys Analysis & Design	CSCI 5112	Sys Analysis & Design
CSCI 6307	Fndn AI & Deep Learn	CSCI 6307	Fndn AI & Deep Learn	HCMG 5100	Health Sys Adm
CSCI 6433	Web App Dev	CSCI 6433	Web App Dev	HCMG 6100	Info Mgmt Health Care
Spring Semester		Spring Semester		Spring Semester	
CSCI 5317	OS Adm & Sec	CSCI 5317	OS Adm & Sec	CSCI 5317	OS Adm & Sec
CSCI 6093	Adv Topics in Info Sys	CSCI 6093	Adv Topics in Info Sys	CSCI 6093	Adv Topics in Info Sys
CSCI 6308	Cloud Computing	CSCI 6012	Info Risk Mgmt	CSCI 6701	Intro to Health Inform
CSCI 6599/ CSCI 6600	Spec Project/Thesis	CSCI 6599/ CSCI 6600	Spec Project/Thesis	CSCI 6599/ CSCI 6600	Spec Project/Thesis

Data Management & Intelligence Concentration		Knowledge & Information Systems Concentration		Health Informatics Concentration	
Spring Semester		Spring Semester		Spring Semester	
CSCI 5201	DB Theory & Design	CSCI 5201	DB Theory & Design	CSCI 5201	DB Theory & Design
CSCI 5317	OS Adm & Sec	CSCI 5317	OS Adm & Sec	CSCI 5317	OS Adm & Sec
CSCI 6574	Research Techniques	CSCI 6574	Research Techniques	CSCI 6574	Research Techniques
Fall Semester		Fall Semester		Fall Semester	
CSCI 5101	Fndn Info Sys Sec Ethics	CSCI 5101	Fndn Info Sys Sec Ethics	CSCI 5101	Fndn Info Sys Sec Ethics
CSCI 5112	Sys Analysis & Design	CSCI 5112	Sys Analysis & Design	CSCI 5112	Sys Analysis & Design
CSCI 6307	Fndn AI & Deep Learn	CSCI 6307	Fndn AI & Deep Learn	HCMG 5100	Health Sys Adm
CSCI 6433	Web App Dev	CSCI 6433	Web App Dev	HCMG 6100	Info Mgmt Health Care
Spring Semester		Spring Semester		Spring Semester	
CSCI 6093	Adv Topics in Info Sys	CSCI 6093	Adv Topics in Info Sys	CSCI 6093	Adv Topics in Info Sys
CSCI 6308	Cloud Computing	CSCI 6012	Info Risk Mgmt	CSCI 6701	Intro to Health Inform
CSCI 6599/ CSCI 6600	Spec Project/Thesis	CSCI 6599/ CSCI 6600	Spec Project/Thesis	CSCI 6599/ CSCI 6600	Spec Project/Thesis