University of Illinois at Urbana-Champaign Professional MCS-DS Degree Program Requirements Student Planning Worksheet

Name:

Must maintain an overall 3.0 GPA	
Degree must be completed within 5 years	
Complete 32 Credit Hours	
Breadth Requirement (12-16 hrs) - Total Credit Hours Completed	
Advanced Coursework (12 hrs) - Total Credit Hours Completed	
Additional Coursework (4-8 hrs) - Total Credit Hours Completed	
Total Credit Hours Completed	

BREADTH REQUIREMENTS: 12-16 credit hours (Must complete at least one course from each area with a grade of B- or higher)						
AREA	CREDIT	GRADE	COURSE / SEMESTER			
Artificial Intelligence						
CS 441, 445, 446, 447, 598 Deep Learning for Healthcare*						
Database and Information Systems: Data Mining						
CS 410, 411, 412						
Interactive Computing (HCI/Graphics)						
CS 416, CS 519*						
Systems & Networking: Cloud Computing						
CS 425, 435, 437, 498 Cloud Computing Applications						
Total Credit Hours from Breadth Coursework - 12-16 credit hours						

500-LEVEL Courses (500-590 or 598)	CREDIT	GRADE	COURSE / SEMESTER	
CS 519 Scientific Visualization [Recommended prereq: CS 416 or CS 418]*	4			
CS 598 Advanced Bayesian Modeling	4			
CS 598 Practical Statistical Learning [Required prereq: CS 410, CS 412, an Artificial Intelligence breadth course, or STAT 420]	4			
CS 598 Deep Learning for Healthcare [Recommended prereq: CS 441]*	4			
CS 513 Theory & Practice of Data Cleaning	4			
CS 598 Foundations of Data Curation	4			
Capstone Courses (Capstone Courses are not required; students who choose to take a capstone must meet BOTH prerequisites)				
CS 598 Data Mining Capstone [Required prereqs: CS 410 and CS 412]	4			
CS 598 Cloud Computing Capstone [Required prereqs: CS 498 Cloud Computing Applications and one other Cloud Computing breadth course]	4			
Total Credit Hours from Advanced Coursework - 12 credit hours				

ADDITIONAL COURSEWORK: 4-8 hours (Any course from the list below; Grade must be C or higher)				
Additional Courses	CREDIT	GRADE	COURSE / SEMESTER	
CS 418, 421, 427, 450, 461, 463, 475, 484				
STAT 420 Methods of Applied Statistics- Statistical Modeling in R	4			
OR any extra course from "Breadth " or "Advanced" listed above.				
Total Credit Hours from Additional Coursework- 4-8 credit hours				

* If CS 519 or CS 598 DLH is applied toward both the breadth and advanced coursework requirements, then 8 hours of "Additional Coursework" is required.