University of Illinois at Urbana-Champaign Professional Online MCS Degree Program Requirements (Coursera Platform) Student Planning Worksheet

Name:	COMMENTS:
Must maintain an overall 3.0 GPA	
Degree must be completed within 5 years	
Must complete 32 Credit Hours	
Breadth Requirement Total Credit Hours Completed	
500-level Requirement Total Credit Hours Completed	
Additional Coursework Total Credit Hours Completed	
Total Credit Hours Completed	

BREADTH COURSES: 12-16 credit hours (Must complete at least one course from four different areas with a grade of B- or higher.)

AREA	CREDIT HRS	GRADE	COURSE / SEMESTER
Architecture, Compilers, Parallel Computing			
CS 484			
Artificial Intelligence*			
CS 441, 445**, 446, 447, 598 Deep Learning for Healthcare***			
Database and Information Systems*			
CS 410, 411, 412			
Interactive Computing*			
CS 416, 418, 445**, 519***			
Programming Languages, Formal Methods, Software Engineering			
CS 421, 427, 475**			
Scientific Computing			
CS 450			
Security and Privacy			
CS 461**, 463**			
Systems and Networking*			
CS 425, 435, 437, 461**, 463**, 498 Cloud Computing Applications			
Theoretical Computer Science			
CS 475**			
Total Credit Hours from Breadth Coursework - 12 to 16 credit hours			

ADVANCED COURSES: 12 credit hours (Any three courses from the list below; grades must be C or higher.)

500-LEVEL Courses (500-590 or 598)	CREDIT HRS	GRADE	COURSE / SEMESTER
CS 513 Theory & Practice of Data Cleaning	4		
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 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 Courses - 12 credit hours			_

ADDITIONAL COURSES: 4 to 8 hours (grades must be C or higher.)

Additional Courses	CREDIT HRS	GRADE	COURSE / SEMESTER
STAT 420 Methods of Applied Statistics - Statistical Modeling in R	4		
OR any extra course from "Breadth" or "Advanced"			
Total Credit Hours from Additional Courses - 4 to 8 credit hours			

^{*} Breadth area coursework required for the MCS-Data Science track.

^{**} May only be applied to one breadth area.

^{***} If either CS 519 or CS 598 DLH is applied toward BOTH breadth and advanced requirements, then 8 hours of "Additional Coursework" is required.