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

Name: **UIN:** **Date:** **Reviewer Initials:**

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 440, 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, 576***			
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 576 Topics in Automated Deduction***	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		
CS 591 Advanced Seminar (repeatable for a maximum of 4 credit hours)	1		
OR any extra course from "Breadth" or "Advanced"			
Total Credit Hours from Additional Courses - 4 to 8 credit hours			

** May only be applied to one breadth area.*

***If applied towards BOTH breadth and advanced requirements, additional coursework must be completed to meet the required 32 credit hours.*