

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 (<i>B average</i>)			
Degree must be completed within 5 years			
Complete 32 Credit Hours			
Breadth Requirement (16 hrs) - Total Credit Hours Completed			
Advanced Coursework (12 hrs) - Total Credit Hours Completed			
Additional Coursework (4 hrs) - Total Credit Hours Completed			
Total Credit Hours Completed			
BREADTH REQUIREMENTS: 16 credit hours			
<i>Must complete at least one course from four different areas with a grade of B- or higher. (Accompanying MOOC courses are listed within parenthesis after the High-Engagement course title.)</i>			
	CREDIT HRS	GRADE	COMMENTS
Artificial Intelligence *			
CS 498 Applied Machine Learning (Applied Machine Learning) *	4		
Database and Information Systems *			
CS 410 Text Information Systems (Text Retrieval & Search Engines + Text Mining & Analytics)	4		
CS 411 Database Systems	4		
CS 412 Intro to Data Mining (Pattern Discovery + Cluster Analysis)	4		
HCI / Graphics *			
CS 498 Data Visualization (Data Visualization)	4		
Parallel Computing			
CS 484 Parallel Computing	4		
Programming Languages & Software Engineering			
CS 421 Programming Languages and Compilers	4		
CS 427 Software Engineering I	4		
Scientific Computing			
CS 450 Numerical Analysis	4		
Systems & Networking *			
CS 425 Distributed Systems (Cloud Computing Concepts: Parts I & II)	4		
CS 498 Cloud Computing Applications (Cloud Computing Applications: Parts 1 & 2)	4		
CS 498 Cloud Networking	4		
Total Credit Hours from Breadth Coursework - 16 credit hours			
ADVANCED COURSEWORK: 12 credit hours (<i>Any three courses from the list below; Grades must be C or higher</i>)			
500-LEVEL Courses (500-590 or 598)	CREDIT HRS	GRADE	COMMENTS
CS 513/ IS 532 Theory & Practice of Data Cleaning	4		
CS 598 / STAT 578 Advanced Bayesian Modelling	4		
CS 598 / STAT 542 Practical Statistical Learning (Prereq: CS 498 Applied Machine Learning)	4		
CS 598 / LIS 531 Foundations of Data Curation	4		
CS 598 Data Mining Capstone (Prereqs: CS 410 and CS 412)	4		
CS 598 Cloud Computing Capstone (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 hours (<i>Any course from the list below; Grade must be C or higher.</i>)			
	CREDIT HRS	GRADE	COMMENTS
STAT 420 Methods of Applied Statistics (Methods of Applied Statistics)	4		
Or any other course from "Breadth Requirements" or "Advanced Coursework"			
	4		
Total Credit Hours from Additional Coursework (4 credit hrs)			

* Breadth area coursework required for the MCS-Data Science track