Last Name:	**First Name:**
10-Digit University ID:	**IU Email:**
Admit Term:	**Expected Graduation Month and Year:**

MS Big Data Systems Data Science Track Degree Audit Form (30 Credit Hours)

Core Requirement (21 credit hours)

Statistical Methods (3 cr.) Select (1) of the following

Course #	Course Name	Term	Grade	Credits
STAT-S 520	Introduction to Statistics			
SPEA-V 506	Statistical Analysis for Effective Decision-Making			

Big Data, Cloud Computing, and Visualization (9 cr.) Select (3) of the following

Course #	Course Name	Term	Grade	Credits
CSCI-B 561	Advanced Database Concepts			
ENGR-E 516	Engineering Cloud Computing			
ENGR-E 522	HPC and Cloud Computing for Large Scale Image Applications			
ENGR-E 534	Big Data Applications			
ENGR-E 583	Information Visualization			
ENGR-E 584	Scientific Visualization			
ENGR-E 616	Advanced Cloud Computing			
ENGR-E 623	Applied Streaming Data Systems			

AI and Machine Learning (6 cr.) Select (2) of the following

Course #	Course Name	Term	Grade	Credits
CSCI-B 555	Machine Learning			

Course #	Course Name	Term	Grade	Credits
CSCI-B 565	Data Mining			
CSCI-P 556	Applied Machine Learning			
ENGR-E 511	Machine Learning for Signal Processing			
ENGR-E 533	Deep Learning Systems			
ENGR-E 536	High Performance Graph Analytics			

Core Engineering (3 cr.) Select (1) of the following

Course #	Course Name	Term	Grade	Credits
ENGR-E 503	Introduction to Intelligent Systems			
ENGR-E 517	High Performance Computing			
ENGR-E 535	Image Processing for Medical Applications			
ENGR-E 551	Simulating Nanoscale Systems			

Electives (9 cr.)

Elective credit hours can be selected from unselected courses above or additional data science-related course offerings within the Luddy School of Informatics, Computing, and Engineering. Students may not earn extra credit for courses taken to fulfill core requirements.
No more than three (3) credit hours of DSCI-D 591 may be earned.
No more than three (3) credit hours of DSCI-D 590, Data Science On-Ramp, may be earned

Course #	Course Name	Term	Grade	Credits

Approved Course Exception

Please outline on this form and upload separate documentation of the written approval from DGS within the graduation application documents

Course #/Course #	Course Name/Course Name Approved Exception	Term	Grade	Credits

Course #/Course #	Course Name/Course Name Approved Exception	Term	Grade	Credits

Only grades of C, C+, B-, B, B+, A-, A, and A+ count towards the degree. Grades of C- are included in GPA computations but do not count towards degree requirements.

Please upload the completed form to your graduation application form.