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

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

Core Requirement (12 credit hours)

Statistical Methods (3 cr.)

Course #	Course Name	Term	Grade	Credits
STAT-S 520	Introduction to Statistics			

Data Mining and Search (3 cr.) Select (1) of the following

Course #	Course Name	Term	Grade	Credits
CSCI-B 551	Elements of AI			
CSCI-B 555	Machine Learning			
CSCI-B 565	Data Mining			
CSCI-P 556	Applied Machine Learning			
ENGR-E 511	Machine Learning for Signal Processing			
ILS-Z 534	Search			
INFO-I 606	Network Science			

Data Management and Engineering (3 cr.) Select (1) of the following

Course #	Course Name	Term	Grade	Credits
ENGR-E 516	Engineering Cloud Computing			
CSCI-B 561	Advanced Database Concepts			
INFO-I 535	Management, Access, and Use of Big and Complex Data			
DSCI-D 532	Applied Database Technologies			

Data Visualization and Storytelling (3 cr.) Select (1) of the following				
Course #	**Course Name**	**Term**	**Grade**	**Credits**
ENGR-E 583	Information Visualization			
ENGR-E 584	Scientific Visualization			
INFO-I 590	Topic: Data Visualization (only counted once)			
STAT-S 670	Exploratory Data Analysis			
DSCI-D 590	Topic: Data Visualization			

Data Science Domain (6 credit hours)

Select one (1) of the following domains and complete two (2) courses within that specific domain

Augmented and Virtual Reality Domain (6 Cr.)				
Course #	**Course Name**	**Term**	**Grade**	**Credits**
INFO-I 590	Topic: Artificial Life in Virtual Reality			
INFO-I 590	Topic: Building Virtual Worlds			
INFO-I 590	Topic: Creating Virtual Assets			
INFO-I 590	Topic: Introduction to Virtual Reality			

Data Security and Privacy Domain (6 Cr.)				
Course #	**Course Name**	**Term**	**Grade**	**Credits**
INFO-I 520	Security for Networked Systems			
INFO-I 525	Organizational Informatics and Economics of Security			
INFO-I 533	Systems and Protocol Security and Information Assurance			
INFO-I 538	Introduction to Cryptography			

Human Robotic Interaction Domain (6 Cr.)				
Course #	**Course Name**	**Term**	**Grade**	**Credits**
CSCI-B 657	Computer Vision			
ENGR-E 599	Topic: Autonomous Robotics			

Course #	Course Name	Term	Grade	Credits
INFO-I 513	Usable Artificial Intelligence			
INFO-I 527	Mobile and Pervasive Design			
INFO-I 540	Human Robot Interaction			
INFO-I 542	Foundations of HCI			
Econ Data Analytics Domain (6 Cr.)				
Course #	**Course Name**	**Term**	**Grade**	**Credits**
ECON-M 501	Microeconomic Theory I			
ECON-M 504	Econometrics I			
ECON-M 511	Microeconomic Theory II			
ECON-M 514	Econometrics II			
ECON-M 518	Econometrics: Big Data			
ECON-M 524	Financial Econometrics			
Health and Biomedical Data Science Domain (6 Cr.)				
Course #	**Course Name**	**Term**	**Grade**	**Credits**
INFO-I 507	Introduction to Health Informatics			
INFO-I 519	Introduction to Bioinformatics			
INFO-I 529	Machine Learning in Bioinformatics			
MGEN-Q 581	Introduction to Quantitative Biomedical Sciences (IU Indianapolis)			
Social Data Science Domain (6 Cr.)				
Course #	**Course Name**	**Term**	**Grade**	**Credits**
ENGR-E 583	Information Visualization			
ILS-Z 604	Topic: Music Data Mining			
ILS-Z 639	Social Media Mining			
INFO-I 513	Usable Artificial Intelligence			

Course #	Course Name	Term	Grade	Credits
INFO-I 590	Topic: Data Visualization			
INFO-I 606	Network Science			

Capstone Project (3 Cr.) Select (1) of the following

If DSCI-D 591 is taken to fulfill the capstone requirement, then the student may enroll in any 1 or 2 credits Luddy course to fulfill the remaining credits.

Course #	Course Name	Term	Grade	Credits
DSCI-D 590	Faculty Assistance in Data Science (FADS)			
DSCI-D 591	Graduate Internship			
DSCI-D 592	Data Science in Practice (DSIP)			
DSCI-D 699	Independent Study in Data Science *(only up to 3 cr. to count in Capstone)*			
INFO-I 590	Topic: LAIDEL (Luddy Artificial Intelligence Development and Experience Laboratory)			
ILS-Z 690	Capstone in Information Architecture			
MGEN-Q 581	Introduction to Quantitative Biomedical Sciences (IU Indianapolis)			

Electives (9 Cr.)

Students may not earn credit for courses taken to fulfill the core, domain, or capstone 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 below 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

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.