

# MS-DS Degree Progress Worksheet

Student Name

Date

This worksheet is designed to help you plan and track your progress toward the MS-DS degree. Please consult with your Graduate Advisor for questions regarding your degree requirements and progress. See also: [Recommended Study Plans](#).

## Core Courses (21 credits)

### Required Core Courses (15 credits)

Course Number & Title	Course Taken & No. of Credits	Semester Taken or Credit Remaining
DTSC 5301 Data Science as a Field (1)		
DTSC 5302 Ethical Issues in Data Science (1)		
DTSC 5303 Cybersecurity for Data Science (1)		
STAT 5000 Statistical Methods and Applications 1 (3)		
STAT 5010 Statistical Methods and Applications 2 (3)		
CSCI 5502 Data Mining (3)		
CSCI 5622 Machine Learning (3)		

### Other Core Courses (6 credits) – Choose Plan & Select from the Following Courses

- ☐ **Plan A:** Students on [Plan A](#) must take **(1)** DTSC 5501/CSCI 7000 Data Structures & Algorithms and **(2)** *either* ATLS 5214 Big Data Architecture *or* DTSC 5020 Introduction to Statistical Learning *or* CSCI 5253 Datacenter Scale Computing *or* INFO 5602 Information Visualization
- ☐ **Plan B:** Students on [Plan B](#) must **select two courses** from the following: **(1)** ATLS 5214 Big Data Architecture *or* CSCI 5253 Datacenter Scale Computing, **(2)** DTSC 5020 Introduction to Statistical Learning, **(3)** CSCI 5454 Design and Analysis of Algorithms *or* **(4)** INFO 5602 Information Visualization

Course Number & Title	Course Taken & No. of Credits	Semester Taken or Credit Remaining
DTSC 5501/CSCI 7000 Data Structures & Algorithms (3) <sup>1</sup>		
ATLS 5214 Big Data Architecture (3) <b>OR</b> CSCI 5253 Datacenter Scale Computing (3)*		
DTSC 5020 Intro to Statistical Learning (3)*		
INFO 6502 Information Visualization (3)*		
CSCI 5454 Design and Analysis of Algorithms (3)*		

<sup>1</sup> Plan A students only.

## Elective Courses (9 credits)

### Elective Courses (9 credits) – Select Based on Interest

Choose from available courses in computer science, information science, business, and more. See [Curriculum](#) page for details. Electives are subject to change and department availability/consent. For any electives not currently approved for credit toward the MS-DS degree, you must consult with your Graduate Advisor for approval.

- ▶ **Computer Science:** CSCI 5253 Datacenter Scale Computing – Methods, Systems & Techniques (3) | CSCI 5302 Advanced Robotics (3) | CSCI 5352 Network Analysis & Modeling (3) | CSCI 5576 High Performance Scientific Computing (3) | CSCI 5832 Natural Language Processing (3) | CSCI 5922 Neural Networks & Deep Learning (3) | CSCI 6502 Big Data Analytics – Systems, Algorithms & Applications (3)
- ▶ **Data Science:** DTSC 5930 Internship (1–3) | DTSC 5840 Independent Study (1–6) | DTSC 5810 Capstone/Practicum (3)
- ▶ **Information Science:** INFO 5507 Investigations in Information Science – Data & the Humanities (3) | INFO 5601 Mastery in Information Science – Ethical & Policy Dimensions of Information & Technology (3) | INFO 5602 Mastery in Information Science – Information Visualization (3) | INFO 5612 Recommender Systems (3) | INFO 5613 Network Science (3)
- ▶ **Business/Analytics:** MBAX 6410 Process Analytics (3) | MSBC 5680 Optimization Modeling (3) | MSBX 5405 Structured Data (3) | GEOG 5563 Earth Analytics (3)

Course Number & Title	Course Taken & No. of Credits	Semester Taken or Credit Remaining

## Notes