# Unofficial Degree Planning WorksheetCatalog Year: 2023 – 2024

# Major: BS in Data Science

This worksheet is designed to help you plan and track your progress toward your degree. It lists all graduation requirements. Course descriptions are available in the current catalog. More detailed descriptions of the program can be found in the [2023 – 2024 catalog](https://ut.smartcatalogiq.com/current/catalog/).

## University Graduation Requirements

[x] Students must earn 124 hours to be eligible for graduation.

[ ] Students must maintain an overall minimum GPA of 3.5 to be eligible for graduation with Honors Distinction.

[ ] Students must earn 100 [Academics, Community Service and Engagement](https://ut.smartcatalogiq.com/en/current/catalog/the-ut-academic-experience/honors-program/continuation-in-the-honors-program/) points per year.

[ ] Students must maintain a major minimum GPA of 2.0 to be eligible for graduation.

[ ] Students must complete 31 credit hours in residency at UT to be eligible for graduation.

[ ] Students must complete 15 credit hours in residency at UT in their major coursework.

## Honors Requirements

### Fundamentum

| **Fundamentum Requirement** | **Course Taken** | **Semester Taken** |
| --- | --- | --- |
| HON 100 (2cr) – Via ad Honores– must be taken in residency |  |  |
| AWR 101 (4cr) - Reading Locally & Globally**or** AWR 110 (5cr) – Academic Writing for Multilingual Students |  |  |
| AWR 201 (4cr) – Writing and Research: The Local and the Global*Pre-requisite (one of the following): AWR 101, AWR 110, or equivalent* |  |  |
| Math (4cr) Requirement (choose one):MAT 155, MAT 160, or Higher | MAT 260 |  |

### Honors Core

| **Dialectic Requirement** | **Course Taken** | **Semester Taken** |
| --- | --- | --- |
| HON 220 (4cr) – Where have we been?*Pre-requisite: AWR 101, HON 100**Co-requisite: AWR 201* |  |  |
| HON 230 (4cr) – Where are we now?*Pre-requisite: AWR 101, HON 100**Co-requisite: AWR 201* |  |  |
| HON 240 (4cr) – Where are we going? *Pre-requisite: AWR 101, HON 100**Co-requisite: AWR 201* |  |  |

| **Idea Labs Requirement** | **Course Taken** | **Semester Taken** |
| --- | --- | --- |
| HON 253 (4cr) – Idea Lab: Health Science or Natural Science*Pre-requisite: AWR 101, HON 100**Co-requisite: AWR 201* |  |  |
| HON 255 (4cr) – Idea Lab: Humanities/Fine Arts*Pre-requisite: AWR 101, HON 100**Co-requisite: AWR 201* |  |  |
| HON 257 (4cr) – Idea Lab: Social Science*Pre-requisite: AWR 101, HON 100**Co-requisite: AWR 201* |  |  |

### Honors Thesis

| **Honors Thesis Requirement** | **Course Taken** | **Semester Taken** |
| --- | --- | --- |
| HON 490 (6-10cr) – Thesis*Pre-requisite: Students must be in good standing in the Honors Program and must have completed 60 credit hours of course work.* |  |  |

## Data Science Requirements (56 Credits)

### Data Science Requirements

| **Data Science Requirements** | **Course Taken** | **Semester Taken** |
| --- | --- | --- |
| CSC 101 (4cr) – The Science of Computing I (1) (Can fulfill Spartan Studies UTAMPA 200 requirement) |  |  |
| CSC 102 (4cr) – The Science of Computing II (2)*Pre-requisite: CSC 101 with a “C” or higher* |  |  |
| CSC 201 (4cr) – Data Structures and Algorithm Analysis*Pre-requisite: CSC 102 with a “C” or higher* |  |  |
| CSC 340 (4cr) – Database Management Systems*Pre-requisite: CSC 201 with a “C” or higher***or** CSC 410 (4cr) – Artificial Intelligence and Machine Learning*Pre-requisite: CSC 301 with a “C” or higher* |  |  |
| DSC 101 (4cr) – Introduction to Data Science *Pre-requisite: CSC 101 with a “C” or higher* |  |  |
| DSC 201 (4cr) – Applied Data Science*Pre-requisite: CSC 102 with a “C” or higher, DSC 101 with a “C” or higher, MAT 272 with a “C” or higher* |  |  |
| DSC 401 (4cr) – Data Science Capstone*Pre-requisite: CSC 201, DSC 201, MAT 310, and Senior Standing* |  |  |
| MAT 260 (4cr) – Calculus I (1) (Can fulfill Spartan Studies Mathematics Requirements) *Pre-requisite: MAT 170 with a grade of “C” or higher, or equivalent* |  |  |
| MAT 261 (4cr) – Calculus II (2)*Pre-requisite: MAT 260 with a grade of “C” or higher* |  |  |
| MAT 262 (4cr) – Calculus III (3)*Pre-requisite: MAT 261 with a grade of “C” or higher* |  |  |
| MAT 271 (4cr) – Computational Linear Algebra*Pre-requisite: MAT 261 with a grade of “C” or higher* |  |  |
| MAT 272 (4cr) – Applied Statistics*Pre-requisite: MAT 225 or MAT 260 with a grade of “C” or higher* |  |  |
| MAT 310 (4cr) – Probability*Pre-requisite: MAT 262 with a grade of “C” or higher* |  |  |
| MAT 402 (4cr) – Applied Regression Analysis*Pre-requisite: MAT 310 or equivalent***or** MAT 425 (4cr) – Mathematical Statistics*Pre-requisite: MAT 272 and MAT 310 with a grade of “C” or higher* |  |  |