



## MASTER OF SCIENCE IN DATA SCIENCE DEGREE PLANNING SHEET

T-Transfer Credit  
M-Maryville Credit

Student Name \_\_\_\_\_ I.D.# \_\_\_\_\_ Registrar Signature: \_\_\_\_\_

### Graduate

| DATA SCIENCE MAJOR COURSES<br>(at least 24 Credits of DSCI 500+ level) | M | T | DATA SCIENCE RECOMMENDED ELECTIVES<br>(ACSC, COSC, MATH, BDAT 500+ level) | M | T |
|--|---|---|---|---|---|
| DSCI 501 Math Modeling (3)   |   |   | COSC 521 Robotics (3)   |   |   |
| DSCI 502 R Programming (3)   |   |   | COSC 523 Image Processing (3)   |   |   |
| DSCI 503 Python (3)  |   |   | COSC 635 Deep Reinforcement Learning (3)                                  |   |   |
| DSCI 504 SQL (3)   |   |   | COSC 640 Fundamentals of Artificial Intelligence (3)                      |   |   |
| DSCI 507 SAS Programming (3)   |   |   | COSC 641 Advanced Artificial Intelligence                                 |   |   |
| DSCI 508 Machine Learning (3)  |   |   | MATH 505 Statistical Modeling I (3)                                       |   |   |
| DSCI 512 Predictive Modeling (3)                                       |   |   | MATH 570 Probability I (3)  |   |   |
| DSCI 598 Capstone Project (3)  |   |   | MATH 571 Probability II (3)   |   |   |
| DSCI 613 NoSQL Database (3)  |   |   | MATH 572 Mathematical Statistics (3)                                      |   |   |
| DSCI 614 Text Mining (3)   |   |   | ACSC 514 Theory of Interest (3)   |   |   |
| DSCI 617 Big Data Analytics (3)  |   |   | ACSC 515 Financial Mathematics (3)  |   |   |
| DSCI 618 Experimental Design (3)                                       |   |   | ACSC 594 Actuarial Seminar I (3)  |   |   |
| DSCI 619 Deep Learning (3)   |   |   | ACSC 595 Actuarial Seminar II (3)   |   |   |
| DSCI 624 Data Visualization (3)  |   |   | DSCI 599/699 Internship (3)   |   |   |
| DSCI 625 Blockchain (3)  |   |   | ACSC 607 Loss Models (3)  |   |   |
| DSCI 697 Thesis/Research (3)   |   |   | ACSC 611 Derivative Market (3)  |   |   |
|  |   |   | BDAT 630 Data Visualization (3)   |   |   |
|  |   |   |   |   |   |
|  |   |   |   |   |   |
| <b>REMARKS:</b>  |   |   |   |   |   |
| 1. Last 30 credits from Maryville University                           |   |   |   |   |   |
| 2. Total 36 credits for graduation                                     |   |   |   |   |   |
| 3. 24+ Credits of DSCI 500+ level                                      |   |   |   |   |   |