MPS in Data Science and Analytics

Academic Planning Worksheet

10 Courses, 30 credits

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| **Required Course (7 courses, 21 credits)** | **Term/Semester** | **Year** | **Credits** |
| DATA 601: Probability and Statistics |  |  | 3 |
| DATA 602: Principles of Data Science |  |  | 3 |
| DATA 603: Principles of Machine Learning |  |  | 3 |
| DATA 604: Data Representation and Modeling |  |  | 3 |
| DATA 605: Big Data Systems |  |  | 3 |
| DATA 606: Algorithms for Data Science |  |  | 3 |
| DATA 607: Communication in Data Science and Analytics |  |  | 3 |
| **SUBTOTAL** |  |  | **21** |
|  |  |  |  |
| **Elective Course (3 courses, 9 credits)** | **Term/Semester** | **Year** | **Credits** |
| *Possible electives include but are not limited to:*  *DATA 612: Deep Learning*  *DATA 641: Natural Language Processing*  *DATA 650: Cloud Computing*  *DATA 698: Research Methods and Study Design*  *DATA 699: Capstone Research Project*  *MSML621: Wireless Communication for Machine Learning*  *MSML 640: Computer Vision* |  |  |  |
|  |  |  | 3 |
|  |  |  | 3 |
|  |  |  | 3 |
| **SUBTOTAL** |  |  | 9 |
| **TOTAL CREDITS** |  |  | **30** |

+DATA 698 must be completed prior to DATA 699

NOTE: Any courses not listed above must be approved by the Faculty Director prior to registration to satisfy degree requirements. Students must earn a grade of C- or better in each course to satisfy program requirements.

Students must maintain a cumulative grade point average of 3.0 to continue in the program and to graduate.