

# M.S. IN DATA SCIENCE (DS.MS)

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| Code          | Title  | Credits |
|---------------|--|---------|
| DS-501        | Probability and Statistics for Data Science              | 3       |
| DS-502        | Introduction to Computer Programming for Data Science I  | 3       |
| DS-503        | Introduction to Computer Programming for Data Science II | 3       |
| DS-504        | Database Management                                      | 3       |
| DS-510        | Experimental Design and Casual Inference                 | 3       |
| DS-515        | Legal, Ethical and Privacy Issues in Data Science        | 1.5     |
| DS-520        | Data Analytics: Concepts and Techniques                  | 3       |
| CO-592        | Interactive Storytelling with Data                       | 3       |
| DS-530        | Big Data Analysis, Methodologies and Infrastructures     | 3       |
| DS-535        | Data Science Consulting                                  | 1.5     |
| DS-650        | Applications for Data Science                            | 3       |
| DS-655        | Advanced Data Science Techniques                         | 3       |
| BM-620        | Management Science and Business Analytics                | 3       |
| DS-695A       | Practicum in Data Science                                | 3       |
| DS-695B       | Practicum in Data Science II                             | 3       |
| Total Credits |  | 42      |

## Admission Requirements

1. Possession of a baccalaureate degree with a minimum 2.75 overall G.P.A. and a 3.0 G.P.A. Candidates should have earned an undergraduate degree in computer science, software engineering, information technology, information science, biology, mathematics, business administration or majored in a field that requires a substantial component of software development and/or business administration.
2. Students who have little programming experience will be evaluated on a case-by-case basis. They may be required to complete foundation courses before entering the master's program.