

MADS Schedule Options

One Course Per Month - maximizes part time status - sample 1

| UMSI MADS Program | Semester 1 | Semester 2 | Semester 3 | Semester 4 | Semester 5 | Semester 6 | Semester 7 | Semester 8 | Semester 9 |
|-------------------|-------------------------------|------------------------------------|------------------------------------|----------------|------------------------|--|--|--|--------------------|
| Month 1 | Data Manipulation | Being a Data Scientist | SQL & Databases | Milestone I | Supervised learning | Causal Inference | Network Analysis | Milestone II | - |
| | - | - | - | - | - | - | - | Experiment Design and Analysis | - |
| | - | - | - | - | - | - | - | - | - |
| Month 2 | Math Methods for Data Science | Information Visualization I | Efficient Data Processing | Data Mining II | Unsupervised Learning | Qualitative Inquiry for Data Scientists OR Information Visualization II OR Database Architectures and Technologies | Qualitative Inquiry for Data Scientists OR Information Visualization II OR Database Architectures and Technologies | Qualitative Inquiry for Data Scientists OR Information Visualization II OR Database Architectures and Technologies | Learning Analytics |
| | - | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - | - |
| Month 3 | Visual Exploration of Data | Data Science Ethics | Big Data: Scalable Data Processing | - | Deep Learning | Machine Learning Pipelines | Information Retrieval | Social Media Analytics | Capstone |
| | - | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - | - |
| Month 4 | Data Mining I | Communicating Data Science Results | Milestone I | - | Presenting Uncertainty | Applied Natural Language Processing | Milestone II | - | Capstone |
| | - | - | - | - | - | - | - | - | Capstone |
| | - | - | - | - | - | - | - | - | - |
| Number of Credits | 4 | 4 | 4 | 2 | 4 | 4 | 4 | 4 | 4 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

One Course Per Month - does not maximize part time status - sample 1

| UMSI MADS Program | Semester 1 | Semester 2 | Semester 3 | Semester 4 | Semester 5 | Semester 6 | Semester 7 | Semester 8 | Semester 9 |
|-------------------|-------------------------------|------------------------------------|------------------------------------|----------------|---|--|--|--|--------------------------------|
| Month 1 | Data Manipulation | Being a Data Scientist | SQL & Databases | Milestone I | Supervised learning | - | Causal Inference | Milestone II | Experiment Design and Analysis |
| | - | - | - | - | - | - | - | Network Analysis | - |
| | - | - | - | - | - | - | - | - | - |
| Month 2 | Math Methods for Data Science | Information Visualization I | Efficient Data Processing | Data Mining II | Unsupervised Learning | Qualitative Inquiry for Data Scientists OR Information Visualization II OR Database Architectures and Technologies | Qualitative Inquiry for Data Scientists OR Information Visualization II OR Database Architectures and Technologies | Qualitative Inquiry for Data Scientists OR Information Visualization II OR Database Architectures and Technologies | Learning Analytics |
| | - | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - | - |
| Month 3 | Visual Exploration of Data | Data Science Ethics | Big Data: Scalable Data Processing | - | Deep Learning OR Machine Learning Pipelines | Deep Learning OR Machine Learning Pipelines | Information Retrieval | Social Media Analytics | Capstone |
| | - | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - | - |
| Month 4 | Data Mining I | Communicating Data Science Results | Milestone I | - | Presenting Uncertainty | Applied Natural Language Processing | Milestone II | - | Capstone |
| | - | - | - | - | - | - | - | - | Capstone |
| | - | - | - | - | - | - | - | - | - |
| Number of Credits | 4 | 4 | 4 | 2 | 4 | 3 | 4 | 4 | 5 |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

MADS Schedule Options

One Course Per Month - does not maximize part time status - sample 2

| UMSI MADS Program | Semester 1 | Semester 2 | Semester 3 | Semester 4 | Semester 5 | Semester 6 | Semester 7 | Semester 8 | Semester 9 |
|-------------------|-------------------------------|------------------------------------|------------------------------------|----------------|---|--|--|--|--------------------------------|
| Month 1 | Data Manipulation | Being a Data Scientist | SQL & Databases | Milestone I | Supervised learning | Causal Inference | Network Analysis | Milestone II | Experiment Design and Analysis |
| | - | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - | - |
| Month 2 | Math Methods for Data Science | Information Visualization I | Efficient Data Processing | Data Mining II | Unsupervised Learning | Qualitative Inquiry for Data Scientists OR Information Visualization II OR Database Architectures and Technologies | Qualitative Inquiry for Data Scientists OR Information Visualization II OR Database Architectures and Technologies | Qualitative Inquiry for Data Scientists OR Information Visualization II OR Database Architectures and Technologies | Learning Analytics |
| | - | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - | - |
| Month 3 | Visual Exploration of Data | Data Science Ethics | Big Data: Scalable Data Processing | - | Deep Learning OR Machine Learning Pipelines | Deep Learning OR Machine Learning Pipelines | Information Retrieval | Social Media Analytics | Capstone |
| | - | - | - | - | - | - | - | - | - |
| | - | - | - | - | - | - | - | - | - |
| Month 4 | Data Mining I | Communicating Data Science Results | Milestone I | - | Presenting Uncertainty | Applied Natural Language Processing | Milestone II | - | Capstone |
| | - | - | - | - | - | - | - | - | Capstone |
| | - | - | - | - | - | - | - | - | - |
| Number of Credits | 4 | 4 | 4 | 2 | 4 | 4 | 4 | 3 | 5 |