# Online Master of Science in Analytics

Curriculum Grid

## Interdisciplinary Core

<table>
<thead>
<tr>
<th>Basic</th>
<th>Advanced</th>
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<tbody>
<tr>
<td><strong>CSE 6040:</strong> Computing for Data Analysis</td>
<td><strong>CSE 6242:</strong> Data and Visual Analytics</td>
</tr>
<tr>
<td><strong>ISYE 6501:</strong> Intro to Analytics Modeling</td>
<td><strong>MGT 6203:</strong> Data Analytics in Business</td>
</tr>
<tr>
<td><strong>MGT 8803/6754:</strong> Business Fundamentals for Analytics</td>
<td></td>
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</tbody>
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## Operations Research and Statistics Electives

### Statistics Electives

- **CS 7641:** Machine Learning
- **ISYE 6402:** Time Series Analysis
- **ISYE 6414:** Regression Analysis
- **ISYE 6420:** Bayesian Statistics
- **ISYE 6740:** Computational Data Analysis
- **ISYE 7406:** Data Mining and Statistical Learning
- **ISYE 8803:** Topics on High Dimensional Data Analytics

### Operations Research Electives

- **ISYE 6644:** Simulation
- **ISYE 6669:** Deterministic Optimization

### Opt-Out Electives

- Any non-required elective
- Opt-Out elective does not have to align with the Course Prefix, i.e. CSE, ISYE, MGT

## Tracks and Electives

### Analytical Tools

- **ISYE 6402:** Time Series Analysis
- **ISYE 6414:** Regression Analysis
- **ISYE 6420:** Bayesian Statistics
- **ISYE 6644:** Simulation
- **ISYE 6669:** Deterministic Optimization
- **ISYE 6740:** Computational Data Analysis (Machine Learning)
- **ISYE 7406:** Data Mining and Statistical Learning
- **ISYE 8803:** Topics on High Dimensional Data Analytics

### Business Analytics

- **MGT 6311:** Digital Marketing
- **MGT 6727:** Privacy for Professionals
- **MGT 8813:** Financial Modeling
- **MGT 8823:** Data Analysis for Continuous Improvement
- **PUBP 6725:** Information Security Policies and Strategies

### Computational Data Analytics

- **CS 6400:** Database Systems
- **CS 6601:** Artificial Intelligence
- **CS 6750:** Human Computer Interaction
- **CS 7280:** Network Science
- **CS 7637:** Knowledge-Based AI
- **CS 7642:** Reinforcement Learning
- **CS 7643:** Deep Learning
- **CS 7646:** Machine Learning for Trading
- **CSE 6250:** Big Data in Healthcare
- **CSE 6742:** Modeling, Simulation & Military Gaming
- **CSE 8803:** Applied Natural Language Processing
- **ISYE 6740:** Computational Data Analysis (Machine Learning)

## Practical Experience

**CSE/ISYE/MGT 6748:** Applied Analytics Practicum

Courses are subject to change.

omsanalytics.gatech.edu