Agenda

• Why Georgia Tech?
• Program Curriculum
• Program Prerequisites
• Admissions Requirements
• Program Format
• Program Cost
• Q&A
What is “analytics”? (Accenture)

• Analytics is the ability to use **statistics, quantitative analysis** and **information-modeling techniques** to shape and make **business decisions**. (Accenture)

College of Computing
#9 in Computer Science

College of Engineering
#4 in Statistics & Operational Research

Scheller College of Business
#5 in Business-Quantitative Analytics

Atlanta: #3 city in Fortune 500 companies
What makes GT’s MS Analytics unique?

CURRICULUM

• Breadth and Interdisciplinarity
  – Core covers wide range of analytics areas
    • Application areas, statistics/OR/ML models, software tools, programming languages, etc.
  – Learning-how-to-learn emphasis
  – True interdisciplinary integration
    • College of Engineering (Statistics/OR)
    • College of Computing
    • Scheller College of Business

• Depth by Specialization
  – Choice of tracks: analytical tools, business analytics, computational data analytics

• Depth by Personalization
  – 50% of course slots are electives
    • 60+ courses to choose from (fewer online)
  – Build a program to match interests/goals

REQUIREMENTS

• Outstanding analytics potential
  – Even without any analytics-related training
    • Anthropology, Astrophysics, Chemistry, Law, Medicine, Political Science, Psychology, Religion, Theater, etc.

• Minimal prerequisite coursework
  – At least one course in each of
    • Calculus
    • Computer Programming
    • Linear Algebra
    • Probability/Statistics
  – Students without even this background can be admitted to the program and then take their prerequisite courses

• Result: Richly diverse range of student backgrounds
## MS Analytics Options

<table>
<thead>
<tr>
<th></th>
<th>Full-time</th>
<th>Part-time</th>
<th>Electives offered</th>
<th>Instruction format</th>
<th>Tuition</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MS in Analytics (GT degree)</strong></td>
<td>✔️</td>
<td>✔️</td>
<td>60+</td>
<td>Fully face-to-face</td>
<td>~$36,000 (GA) ~$49,000 (other)</td>
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<tr>
<td>on-campus (Fall 2014-)</td>
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<tr>
<td><strong>MS in Analytics (GT degree)</strong></td>
<td>✔️</td>
<td>✔️</td>
<td>20+</td>
<td>Fully online</td>
<td>$9,900 (no perqs)</td>
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<td>online (Fall 2017-)</td>
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<tr>
<td><strong>MicroMasters (edX certificate)</strong></td>
<td>✔️</td>
<td></td>
<td>n/a (three required courses)</td>
<td>Fully online</td>
<td>$1,500 (can be pathway to degree)</td>
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<tr>
<td><strong>Analytics: Essential Tools and Methods</strong></td>
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MS Analytics Curriculum
<table>
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<tr>
<th>Interdisciplinary Core</th>
<th>Basic</th>
<th>Advanced</th>
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<tbody>
<tr>
<td><strong>CSE 6040</strong> Computing for Data Analysis</td>
<td><strong>MGT 8803/6754</strong> Business Fundamentals for Analytics</td>
<td><strong>ISyE 6501</strong> Intro to Analytics Modeling</td>
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<th>Interdisciplinary Core</th>
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<tbody>
<tr>
<td><strong>CSE 6242</strong> Data and Visual Analytics</td>
<td><strong>MGT 6203</strong> Data Analytics in Business</td>
<td><strong>ELECTIVES: 2 Statistics, 1 Operations Research</strong></td>
</tr>
</tbody>
</table>

**TRACKS AND ELECTIVES**

**Analytical Tools Electives**
- Bayesian Statistics
- Computational Statistics
- Data Mining/Statistical Learning
- Design of Experiments
- Deterministic Optimization
- Machine Learning
- Nonparametric Data Analysis
- Probabilistic Modeling
- Regression Analysis
- Simulation
- Time Series Analysis

**Business Analytics Electives**
- Data Analysis for Continuous Improvement
- Digital Marketing
- Financial Modeling
- Valuation and Value Creation

**Computational Data Analytics Electives**
- Big Data in Healthcare
- Computational Algorithms
- Computational Data Analysis
- Database Systems
- Information Visualization
- Machine Learning
- Web Search/Text Mining

**Applied Analytics Practicum**
edX MicroMasters


Three MS Analytics core courses:

- ISYE 6501 - Introduction to Analytics Modeling
- CSE 6040 - Computing for Data Analytics
- MGT 6203 - Data Analytics in Business

Possibility to use these toward the MS Analytics degree

- By petition only (if admitted)
- Petition might not be approved
Foundational Courses Opt-out

Possibility to replace foundational course(s) with an elective

- CSE 6040 - Introduction to Computing for Data Analysis
- ISYE 6501 – Introduction to Analytics Modeling
- MGT 8803/6754 - Business Fundamentals for Analytics

- Only if you have sufficient background in the area of the replaced course
  - (Fill out a form after being admitted)
Program Prerequisites
Program Prerequisites

At least one college-level course or equivalent knowledge in:

- Probability/statistics
- Computer programming in a high-level language like Python
- Calculus and basic linear algebra

Note: Applicants who lack a background in mathematics or computing may still be admitted. In these cases, students are expected either to learn the necessary material on their own before beginning the program, or to take one or more preparatory courses after being admitted.
Admission Requirements
Admissions Requirements

1. An undergraduate Bachelor's degree or the equivalent from an accredited institution

2. As part of the application package, applicants must also submit:
   • Transcripts from all universities attended
   • A professional resume
   • A personal statement
   • Contact information for three people who will submit letters of recommendation. As you complete your online application, you will be asked to list your recommender's name and contact information. Your recommenders will then receive an email, inviting them to complete an online letter of recommendation.
Admissions Requirements

3. International students only: TOEFL

- The required minimum total score on the exams are:
  - The internet-based TOEFL exam = 100, with minimum section scores of 20 or higher on each skill area
  - The paper-based TOEFL exam = 600

- Exam should be taken prior to submitting your application.

- You may self report your score as a part of the application. An official transcript from ETS is required (institute code 5248).

- Living and working in the United States does not qualify for a TOEFL waiver
Admissions Requirements

4. *Optional* - Applicants may choose to submit standardized test scores, most commonly GRE or GMAT (but if appropriate, LSAT, MCAT, etc. scores may also be considered).

Not submitting a GRE or GMAT score will have **no adverse effect** on your application.
Program Format
Program Format

• 11 courses
• 36 credit hours
• Online courses are offered in three terms: Fall, Spring, Summer
• Courses are 16 weeks long (11 weeks in Summer)
• Online courses
  • Lectures are recorded and can be viewed at any time during the week.
  • Instructional team will have live office hours to answer questions.
Program Cost
Tuition (Online)

- Tuition
  - $275 per semester credit hour
- Mandatory Student Fees
  - $301 per semester
    - $107 – technology fee
    - $194 – special institutional fee
Important Dates (Online)

Spring 2019
• July 15 – early application deadline
• September 15 – regular application deadline
• Jan. 7 – classes start

Fall 2019
• March 1 – early application deadline
• April 15 – regular application deadline
• August 19 – classes start
Summary
Let’s Review

Curriculum

• You can change tracks and/or complete more than one track

• You can petition to opt-out of one or more foundational course if you have sufficient academic or professional experience (i.e. MBA opting out of Business Fundamentals for Analytics or a Computer Science major opting out of Computing for Data Analysis)

• You can petition for Advanced Standing if you have completed one or more of the edX MicroMasters courses as a verified learner

• We highly recommend working professionals take no more than 1-2 courses per semester

• You have six-years from your first semester to complete the program
Let’s Review

Admission Requirements

• You can complete the program prerequisites by enrolling in a Massive Open Online Course on edX or another online platform; a certificate of completion is not required.

• Your personal statement should include your goals and career plans, the experience you bring to the program and what you want to take away from the program, and any other information you feel is useful for the admission committee.

• You can use unofficial transcripts to submit your application.

• International applicants will need to have their transcripts translated in English (if admitted, you will be required to submit your degree documents).

• Applicants are not required to submit GRE or GMAT scores with their applications. If you believe your score may strengthen your application, feel free to submit it. Please note that while a high GRE or GMAT score may strengthen your application, not submitting a GRE or GMAT score will have no adverse effect on your application.
Let’s Review

Admission Requirements Cont…

• TOEFL is an institution requirement

• Living and/or working in the U.S. does not qualify as a TOEFL exemption (unless you are a PR or Citizen)

• The required minimum score is 100 (20 or higher in each section)

Application Process

• The application fee is $75

• We admit for Fall and Spring only (continuing students can take summer courses)

• We require 3 letters of recommendation (recommenders must submit their recommendations using the link they receive via email)

• The deadline for Spring applications is September 15, 2018 at 11:59 PM EST
Let’s Review

Degree Name

• The name "Online" is an informal designation to help distinguish the delivery method of the online program. Your diploma will read "Master of Science in Analytics"
Who to contact
Questions?

omsanalytics@gatech.edu

404-385-5700