DATA COMPUTING (M.S. IN DATA SCIENCE AND BUSINESS ANALYTICS)

Analytics is a fast-growing STEM field with a high demand for individuals who possess the skills and expertise necessary to navigate the process of transforming data into insight for making sound business decisions. It’s the reason that the WSU College of Engineering and the Mike Ilitch School of Business launched an innovative and interdisciplinary new master’s program in data science and business analytics. Leaders in this field use data to fundamentally rethink all facets of business in many sectors, including manufacturing, supply chain, finance, and healthcare.

Admission Requirements

Admission to any graduate program is contingent upon admission to the Graduate School (http://bulletins.wayne.edu/graduate/general-information/admission/). Applicants should have 3.0 or higher cumulative undergraduate g.p.a.

Interview

Prospective candidates being considered for admission may have to participate in an online interview with the admissions committee. Upon evaluating the application, admissible candidates will be contacted for scheduling these interviews.

Prerequisite Knowledge

Candidates are expected to well-versed in basic probability and statistics and also familiar with some programming language. Courses will be available in the summer months for admitted applicants to refresh their knowledge or makeup for any deficiency in this knowledge.

Students without this prerequisite knowledge but otherwise possess good credentials will be given conditional admission and have to take this remedial coursework in the summer months prior to starting the program in the fall term

Graduate Management Admission Test (GMAT) and Graduate Record Examination (GRE)

Applicants must complete the GRE or the GMAT with minimum scores in the top 75 percentile.

Program Requirements

Students must complete a total of 30 credits in order to earn the M.S. in Data Science and Business Analytics with a major in Data Computing.

The interdisciplinary core includes 9 credits of coursework across business, computer science, and industrial engineering. On top of this integrated breadth of study covering the core areas of data science and business analytics, each student has 9 credits of major courses to give them depth in an engineering, business, or analytics area. Each student’s 6 credits of elective choices can be personalized to support their individual career goals. The final piece of the curriculum is a 6-credit applied analytics practicum, in which students will work with companies and organizations on real analytics problems.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>DSB 6000</td>
<td>Data Science Strategy &amp; Leadership</td>
<td>3</td>
</tr>
<tr>
<td>DSA 6000</td>
<td>Data Science and Analytics</td>
<td>3</td>
</tr>
<tr>
<td>DSE 6000</td>
<td>Computing Platforms for Data Science</td>
<td>3</td>
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Module 2: Major Courses

- DSE 6100 Data Modeling and Management 3
- DSE 6200 Modern Databases 3
- DSE 6300 Data Science Applications Development 3

Module 3: Electives

Elective courses can come from other tracks of the Data Science & Business Analytics program or from outside the program.

Module 4: Applied Analytics Practicum

- DSE 7500 Practicum 6

Total Credits 30

All course work must be completed in accordance with the regulations of the Graduate School (http://bulletins.wayne.edu/graduate/general-information/academic-regulations/) and the College of Engineering (http://bulletins.wayne.edu/graduate/college-engineering/academic-regulations/).