BUSINESS ANALYTICS (MS)

Master of Science in Business Analytics
Unit: College of Business (http://business.louisville.edu/) (GB)
Program Website (https://business.louisville.edu/msba/degree-details/)
Academic Plan Code(s): BUANMS, BUANMS_O

Program Information

The Master of Science in Business Analytics (MSBA) is an accelerated, cohort-based 13-month, three-semester program. Students work both in teams and independently in completing the coursework.

The MSBA curriculum combines information systems technologies, data modeling, and analytics with business acumen and impactful communications to develop the skills necessary to become a successful data scientist with excellent potential for professional growth. The program is also designed and delivered in close collaboration with local businesses providing a strong business orientation, increasing your skill relevance in the marketplace upon graduation.

Admission Requirements

a. Completion of a graduate application (http://louisville.edu/graduate/apply/) along with application fee
b. Provision of two letters of reference, a resume, and a personal statement
c. Completion of an undergraduate degree along with official transcripts
d. GMAT or GRE score: May be waived for applicants with significant work experience in the field of analytics or for applicants with significant academic exposure (e.g., major or minor) in a STEM or technical field

Program Requirements

The Master of Science in Business Analytics (MSBA) program requires a minimum of 30 credit hours for program completion. Currently, 22.5 credit hours are core and 7.5 credit hours are in electives.

Students also may enroll in up to three (3) additional credit hours in Analytics Internship courses spread across the program's three semesters.

Core Courses and Special Topics

<table>
<thead>
<tr>
<th>Year</th>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fall</td>
<td>MSBA 630</td>
<td>Modern Data Management</td>
<td>3.0</td>
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<tr>
<td></td>
<td></td>
<td>MSBA 605</td>
<td>Python for Analytics</td>
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<td></td>
<td></td>
<td>MSBA 610</td>
<td>Data Visualization with Power BI</td>
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<td></td>
<td></td>
<td>MSBA 615</td>
<td>R for Analytics</td>
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<tr>
<td></td>
<td></td>
<td>MSBA 620</td>
<td>Statistical Foundations of Business Analytics</td>
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<td></td>
<td></td>
<td></td>
<td>Hours</td>
<td>12</td>
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<tr>
<td></td>
<td>Spring</td>
<td>MSBA 635</td>
<td>Predictive Analytics</td>
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<td></td>
<td></td>
<td>MSBA 645</td>
<td>Applied Machine Learning</td>
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<td></td>
<td></td>
<td>MSBA 650</td>
<td>Advanced Analytical Tools</td>
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<tr>
<td></td>
<td></td>
<td>MSBA 680</td>
<td>Special Topics in Business Analytics (Elective course)</td>
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<td></td>
<td></td>
<td></td>
<td>Hours</td>
<td>10.5</td>
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<tr>
<td></td>
<td>Summer</td>
<td>MSBA 685</td>
<td>Analytics Internship (optional, spread across three semesters)</td>
<td>1.0</td>
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</tbody>
</table>

Sequence of courses is subject to change.

1 Optional internship, 1 credit hour per semester completed.