PUBLIC POLICY AND ADMINISTRATION, MA DATA ANALYTICS FOR PUBLIC POLICY SPECIALIZATION

The data analytics specialization is intended for students who will use data analytics and statistics to address policy issues. Policy analysts and researchers who can use sophisticated statistical and computational methods can add insight and value to public policy decision-making by using big data to improve public services in public health, transportation, and law enforcement, predict and avert famine and droughts, and improve city infrastructures.

Please note that students must take the core MPPA 405-DL Statistics for Research before beginning specialization courses.

Curriculum

Core Courses (10 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>MPPA 401-DL/401-0</td>
<td>Research Methods</td>
</tr>
<tr>
<td>MPPA 402-DL/402-0</td>
<td>Elements of Public Finance and Budgeting</td>
</tr>
<tr>
<td>MPPA 403-DL/403-0</td>
<td>Fundamentals of Public Administration</td>
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<tr>
<td>MPPA 404-DL/404-0</td>
<td>Microeconomics for Public Policy Administration</td>
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<tr>
<td>MPPA 405-DL/405-0</td>
<td>Statistics for Research</td>
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<tr>
<td>MPPA 406-DL/406-0</td>
<td>Program Evaluation and Policy Analysis</td>
</tr>
<tr>
<td>MPPA 407-DL/407-0</td>
<td>Scope and Theory of Public Policy</td>
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<tr>
<td>MPPA 408-DL/408-0</td>
<td>Public Organization Theory &amp; Management</td>
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<tr>
<td>MPPA 418-DL/418-0</td>
<td>Ethics and Leadership</td>
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<tr>
<td>MPPA 498-DL/498-0</td>
<td>The Capstone Project</td>
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<tr>
<td>or MPPA 590-DL</td>
<td>Thesis Research</td>
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Specialization Courses (3 units)

<table>
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<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>MSDS 400-DL</td>
<td>Math for Modelers</td>
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Choose any two courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tr>
<td>MSDS 410-DL</td>
<td>Supervised Learning Methods</td>
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<tr>
<td>MSDS 420-DL</td>
<td>Database Systems</td>
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<tr>
<td>MSDS 455-DL</td>
<td>Data Visualization</td>
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<tr>
<td>MSDS 460-DL</td>
<td>Decision Analytics</td>
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<tr>
<td>MSDS 476-DL</td>
<td>Business Process Analytics</td>
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</tbody>
</table>

About the Final Project

Students may pursue their capstone experience independently or as part of a team. As their final course, students take either the individual research project in an independent study format or the classroom final project class in which students integrate the knowledge they have gained in the core curriculum in work assigned by the instructor. In both cases students are guided by faculty in exploring the body of knowledge on public policy and administration while contributing research of practical value to the field. The capstone 590 thesis project and 498 capstone class count as one unit of credit.