ANALYTICS (GRADUATE CERTIFICATE)

https://gradschool.unh.edu/analytics/program/certificate/analytics

**Description**

The Graduate Certificate in Analytics is a full time, 12-week, on-campus program that provides a "real-time, real world" introduction to today's tools, methods and uses of data. The program brings together both the Graduate Certificate in Analytics (GCA) students and the M.S. students, to learn side by side. In the summer, students learn the basics of statistical and mathematical thinking, programming in three languages, and the foundations of data cleaning, visualization, and presentation. Each day, students will begin with instruction and spend the remainder of the day working on homework and project assignments, culminating in a team project around a social justice issue. In addition, a number of "soft" skills are introduced such as LEAN project management and Agile training. And finally, students are exposed to a host of industry partners and perspectives on the rapidly changing world of analytics and data science through our guest speaker series.

This is an excellent program for anyone exploring a career in data analytics or individuals working in data analytics positions with no formal academic background in analytics. Students spend the summer in a mix of didactic and applied learning through case studies, team work and course curriculum.

- 3 months to certificate completion
- Two-track focus: master analytics and professional conduct and development
- Real-time case studies with strong link to industry
- Learn programming languages including Python, SQL, R and SAS

**Admissions Requirements**

Please see the Graduate School website (http://www.gradschool.unh.edu/php/posd.php?major=QM71) for admissions requirements.

**Requirements**

The curriculum for the Full-Time Graduate Certificate in Analytics (GCA) program begins in May on the Durham, NH campus with an Orientation. Students learn alongside one another and work on teams through the August. The 12-credit program is comprised of four core courses.

The GCA semester provides students a measurable and consistent foundation in statistics and an overview of analytic and data science foundations, tools and an exposure to their application. The session is an intense introduction to the field of analytics and data science where students are using provided data to sample tools and techniques, get exposure to the field and engage in high level hands on manipulation and presentation.

Students begin each day with core instruction in such topics as data exploration, programming and data management, multivariate and logistic regression or data mining and spend the remainder of the day working on homework and project assignments.

**The graduate certificate in Analytics requires the completion of four core courses.**

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATA 800</td>
<td>Introduction to Applied Analytic Statistics</td>
<td>3</td>
</tr>
<tr>
<td>DATA 801</td>
<td>Foundations of Data Analytics</td>
<td>3</td>
</tr>
<tr>
<td>DATA 802</td>
<td>Analytical Tools and Foundations</td>
<td>3</td>
</tr>
<tr>
<td>DATA 803</td>
<td>Introduction to Analytics Applications</td>
<td>3</td>
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Total Credits: 12