DECISION ANALYTICS, MASTER OF (M.D.A.) WITH A CONCENTRATION IN HEALTH CARE MANAGEMENT

Program accreditation
Association to Advance Collegiate Schools of Business (http://www.aacsb.edu/)

Program goal
The Master of Decision Analytics provides students with knowledge of the statistical, mathematical and scientific skills and experience necessary to utilize advanced methods of data analysis for business decision-making.

Student learning goals
Students will be able to examine a situation/problem to determine a relevant data-driven analysis to provide valuable information for decision-makers and apply advanced analytical and quantitative skills to the decision problems of businesses, organizations and society. Students will be able to communicate analysis information and recommend decisions in a clear, ethical and transparent manner.

Student learning outcomes
1. **Database structures and query:** Students will have an understanding of basic database structures, be able to query databases and organize data for analysis.
2. **Quantitative skills:** Students will be able to identify appropriate data analysis approaches to address real-world problems. They will be able to perform the analysis using commercial software.
3. **Problem formulation:** Students will have the knowledge, skills and practice to take nonquantitative and perhaps ill-formed problems and issues and determine ways objective analysis can bring organization and insight to them. They will be able to determine data requirements and query available databases.
4. **Analytical applications:** Students will experience various applications of analytics in real situations.
5. **Technical communications and teamwork:** Students will be able to communicate analytical analysis and results effectively to nonquantitative audiences and will develop skills in organizing, interacting and analyzing real problems as members of a team.

VCU Graduate Bulletin, VCU Graduate School and general academic policies and regulations for all graduate students in all graduate programs
The VCU Graduate Bulletin website documents the official admission and academic rules and regulations that govern graduate education for all graduate programs at the university. These policies are established by the graduate faculty of the university through their elected representatives to the University Graduate Council.

It is the responsibility of all graduate students, both on- and off-campus, to be familiar with the VCU Graduate Bulletin as well as the Graduate School website and academic regulations in individual school and department publications and on program websites. However, in all cases, the official policies and procedures of the University Graduate Council, as published on the VCU Graduate Bulletin and Graduate School websites, take precedence over individual program policies and guidelines.

Visit the academic regulations section for additional information on academic regulations for graduate students.

Degree candidacy requirements
A graduate student admitted to a program or concentration requiring a final research project, work of art, thesis or dissertation, must qualify for continuing master's or doctoral status according to the degree candidacy requirements of the student's graduate program. Admission to degree candidacy, if applicable, is a formal statement by the graduate student's faculty regarding the student's academic achievements and the student's readiness to proceed to the final research phase of the degree program.

Graduate students and program directors should refer to the following degree candidacy policy as published in the VCU Graduate Bulletin for complete information and instructions.

Visit the academic regulations section for additional information on degree candidacy requirements.

Graduation requirements
As graduate students approach the end of their academic programs and the final semester of matriculation, they must make formal application to graduate. No degrees will be conferred until the application to graduate has been finalized.

Graduate students and program directors should refer to the following graduation requirements as published in the Graduate Bulletin for a complete list of instructions and a graduation checklist.

Visit the academic regulations section for additional information on graduation requirements.

Other information
School of Business policies and procedures for graduate master's degree students are available on the school's website.

Apply online at graduate.admissions.vcu.edu (http://www.graduate.admissions.vcu.edu).

Admission requirements

<table>
<thead>
<tr>
<th>Degree: M.D.A.</th>
<th>Semester(s) of entry:</th>
<th>Deadline dates:</th>
<th>Test requirements:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fall</td>
<td>Jul 1</td>
<td>GMAT or GRE</td>
</tr>
<tr>
<td></td>
<td>Spring</td>
<td>Nov 1</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Summer</td>
<td>Mar 1</td>
<td></td>
</tr>
</tbody>
</table>

In addition to the general admission requirements of the VCU Graduate School (http://bulletin.vcu.edu/graduate/study/admission-graduate-study/admission-requirements/), applicants to the master’s program in business must submit an up-to-date resume.

Degree requirements
The decision analytics degree provides students with knowledge of quantitative skills and experience in analyzing problems and using data for decision-making in a business environment. Depending upon individual student interests and adviser approval, the required nucleus is
supplemented with relevant elective courses from within the School of Business or from outside departments.

In addition to the VCU Graduate School graduation requirements (http://bulletin.vcu.edu/academic-regs/grad/graduation-info/):

1. All students must have completed a course in calculus prior to attempting graduate business courses. This prerequisite can be met after admission to the program.
2. Students must complete up to four classes (zero to 12 credit hours) of foundation course work. At the time of application, all undergraduate and graduate transcripts will be reviewed to determine if the following courses may be waived. Waiver of a foundation course may be awarded when a student demonstrates equivalent knowledge, such as completing the required undergraduate equivalent course with minimum grade of C.

The concentration in health care administration requires an additional nine credit hours beyond the minimum 30-credit hours required for the degree.

**Curriculum requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Prerequisite</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Calculus</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCMA 212 or SCMA 500</td>
<td>Statistical Fundamentals for Business Management</td>
<td>3</td>
</tr>
<tr>
<td><strong>Foundation courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SCMA 524</td>
<td>Statistical Fundamentals for Business Management</td>
<td>3</td>
</tr>
<tr>
<td>Select three of the following:</td>
<td></td>
<td>9</td>
</tr>
<tr>
<td>ACCT 507</td>
<td>Fundamentals of Accounting</td>
<td></td>
</tr>
<tr>
<td>ECON 500</td>
<td>Concepts in Economics</td>
<td></td>
</tr>
<tr>
<td>FIRE 520</td>
<td>Financial Concepts of Management</td>
<td></td>
</tr>
<tr>
<td>MGMT 540</td>
<td>Management Theory and Practice</td>
<td></td>
</tr>
<tr>
<td>MKTG 570</td>
<td>Concepts and Issues in Marketing</td>
<td></td>
</tr>
<tr>
<td>SCMA 530</td>
<td>Fundamentals of the Legal Environment of Business</td>
<td></td>
</tr>
<tr>
<td><strong>Required core courses</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>INFO 614</td>
<td>Data Mining</td>
<td>3</td>
</tr>
<tr>
<td>INFO 664</td>
<td>Information Systems for Business Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>SCMA 632</td>
<td>Statistical Analysis and Modeling</td>
<td>3</td>
</tr>
<tr>
<td>SCMA 645</td>
<td>Advanced Decision Analytics</td>
<td>3</td>
</tr>
<tr>
<td>SCMA 648</td>
<td>Business Data Analytics</td>
<td>3</td>
</tr>
<tr>
<td><strong>Approved electives</strong></td>
<td></td>
<td>15</td>
</tr>
<tr>
<td>Select 15 credits from:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ACCT 608</td>
<td>Managerial Accounting Concepts</td>
<td></td>
</tr>
<tr>
<td>ECON 501</td>
<td>Introduction to Econometrics</td>
<td></td>
</tr>
<tr>
<td>ECON 610</td>
<td>Managerial Economics</td>
<td></td>
</tr>
<tr>
<td>ECON 612</td>
<td>Econometrics</td>
<td></td>
</tr>
<tr>
<td>FIRE 629</td>
<td>Real Estate Investment Analysis</td>
<td></td>
</tr>
<tr>
<td>FIRE 635</td>
<td>Investments and Security Analysis</td>
<td></td>
</tr>
<tr>
<td>INFO 610</td>
<td>Analysis and Design of Database Systems</td>
<td></td>
</tr>
</tbody>
</table>

The minimum total of graduate credit hours required for this degree is 54 (39 if prerequisite and all foundation courses are waived).

**Contact**

Austen Gouldman
gouldmana@vcu.edu
(804) 828-4622

**Additional contact**

Graduate Studies in Business
gsib@vcu.edu
(804) 828-4622

**Program website:** business.vcu.edu/graduate/dsba.html (http://business.vcu.edu/graduate/dsba.html)