BUSINESS ADMINISTRATION, MASTER OF (M.B.A.)/INFORMATION SYSTEMS, MASTER OF SCIENCE (M.S.) [COMBINED]

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

Program goal
Master of Business Administration
The purpose of the Master of Business Administration program at VCU is to prepare individuals for the responsibilities of management. As students at VCU, individuals will learn the functions and techniques of effective management. The student also will come to understand the environmental and economic factors that affect decision-making in organizations. In short, the student will know what to do as future events unfold that affect his/her firm or organization.

An M.B.A. from VCU benefits students at various points in their careers. Individuals who have recently received their baccalaureate degrees may choose to refine their business skills while their undergraduate training is fresh. Individuals with work experience often find that an M.B.A. is the key to rapid promotion or a career change. Finally, an M.B.A. from VCU meets the needs of students who recognize that the best preparation for an uncertain future is continuous learning.

Master of Science in Information Systems
The Master of Science in Information Systems program is designed to prepare students for specialized roles using information systems to support organizations. The program is intended to provide a graduate-level, business-technology-oriented curriculum that focuses on the design and development of information systems to solve real-world problems. Graduates of the program are expected to be able to take significant roles in planning, organizing, managing, designing, configuring and implementing systems using state-of-the-art technologies within organizations.

Student learning outcomes
For M.B.A. graduates
1. Students should be able to demonstrate the capacity to apply business knowledge in new and unfamiliar circumstances.
2. Students should be able to demonstrate the ability to work in teams and other groups.
3. Students should understand and be able to develop the ethical and social responsibilities of organizations.
4. Students should be able to describe the factors involved in key operation decisions and to apply appropriately techniques that provide insight and structure for management decision-making.
5. Students should be able to identify and understand major issues faced by organizations with evolving information technology and investigate issues and challenges faced by managers with changes in information technology.
6. Students should be able to describe the factors involved in key operation decisions and to apply appropriately techniques that provide insight and structure for management decision-making.
7. Graduates of the program should be able to critically evaluate and use accounting and other information for managerial decision-making.
8. Graduates should be able to evaluate marketing programs.
9. Students should be able to think critically and systematically about financial issues in businesses to develop techniques to analyze these issues numerically.
10. Graduates of the program should be able to develop an analytical framework for identifying the objectives of the firm and to provide some tools for evaluating the firm’s performance.

For M.S. in Information Sciences graduates
1. Graduates should be capable of communicating and networking effectively within their profession and within their organizations, serving the profession by applying this knowledge broadly and maintaining key technical expertise in order to sustain required levels of competitiveness.
2. Graduates must have an understanding of information technology as it applies to business contexts and the skill to apply this technology effectively in specific circumstances.
3. Graduates must be able to develop efficient and effective IS solutions using appropriate technologies that can deliver competitive advantages to organizations.
4. Graduates must be able to develop and incorporate changes in the planning and management of IS resources based on an increased understanding of the dynamic changes in the organization, IS and global environments.

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.

Access to the VCU Graduate Bulletin, VCU Graduate School and 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 Graduate study 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 Graduate study 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 at business.vcu.edu/graduate-studies/current-graduate-students.

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

Admission requirements

<table>
<thead>
<tr>
<th>Degree: M.S. and M.B.A.</th>
<th>Semester(s) of entry: Fall</th>
<th>Deadline dates: Jul 1</th>
<th>Test requirements: GMAT or GRE</th>
</tr>
</thead>
</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 combined Master of Business Administration and Master of Science in Information Systems program must submit an up-to-date resume.

Degree requirements
In addition to the VCU Graduate School graduation requirements (http://bulletin.vcu.edu/graduate/study/general-academic-regulations-graduate-students/graduation-requirements), students can earn both M.B.A. and M.S. in Information Systems degrees by having 12 credit hours counted toward both degrees.

Students in the combined degree program will follow the same schedule as regular M.B.A. students, including the two lockstep semesters. To get both degrees, students will take all foundation courses required for the M.B.A. (unless waived), all nine core courses required for the M.B.A. and nine additional courses in the M.S. in Information Systems program, including INFO 610, INFO 620 and INFO 630. Students whose undergraduate degrees are not in information systems may also be required to take additional undergraduate prerequisite courses before taking the graduate information systems courses, as determined by the program adviser. The INFO 661 course taken for the M.B.A. will substitute for INFO 640, normally required for the M.S. in Information Systems degree, and three of the additional information systems courses also will count toward the normally required three elective courses in the M.B.A. program.

One of the information systems courses must have substantial global, entrepreneurial and/or experiential components. The six information systems courses to be taken in addition to INFO 661, INFO 664, INFO 610, INFO 620 and INFO 630 must be approved by the program adviser, and would normally be selected to satisfy one of the M.S. in Information Systems concentrations.

Curriculum requirements

Foundation courses (not included in 54 hours required for combined degree program)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 507</td>
<td>Fundamentals of Accounting</td>
<td>3</td>
</tr>
<tr>
<td>ECON 500</td>
<td>Concepts in Economics</td>
<td>3</td>
</tr>
<tr>
<td>FIRE 520</td>
<td>Financial Concepts of Management</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 540</td>
<td>Management Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 570</td>
<td>Concepts and Issues in Marketing</td>
<td>3</td>
</tr>
<tr>
<td>SCMA 524</td>
<td>Statistical Fundamentals for Business Management</td>
<td>3</td>
</tr>
<tr>
<td>SCMA 530</td>
<td>Fundamentals of the Legal Environment of Business</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 21

M.B.A. course work

Advanced courses
Each student must begin the advanced portion of the program with the courses below in each of the first two semesters. Full-time students will take additional courses from the remainder of the advanced program.

Semester one (to be taken at the same time)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 610</td>
<td>Managerial Economics</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 641</td>
<td>Organizational Leadership and Project Team Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Semester two

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>FIRE 623</td>
<td>Financial Management</td>
<td>3</td>
</tr>
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</table>

Remainder of the advanced program

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>ACCT 608</td>
<td>Managerial Accounting Concepts</td>
<td>3</td>
</tr>
<tr>
<td>INFO 661</td>
<td>Information Systems for Managers</td>
<td>3</td>
</tr>
<tr>
<td>INFO 664</td>
<td>Information Systems for Business Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>MGMT 642</td>
<td>Business Policy and Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MKTG 671</td>
<td>Marketing Management</td>
<td>3</td>
</tr>
<tr>
<td>SCMA 675</td>
<td>Operations Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Hours: 27

M.S. in Information Systems course work

Core courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO 610</td>
<td>Analysis and Design of Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>INFO 620</td>
<td>Data Communications</td>
<td>3</td>
</tr>
<tr>
<td>INFO 630</td>
<td>Systems Development</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives
Select six of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>INFO 611</td>
<td>Data Re-engineering</td>
<td>3</td>
</tr>
</tbody>
</table>
INFO 614 Data Mining
INFO/CISS 616 Data Warehousing
INFO 622 Internet Security Management
INFO 632 Business Process Engineering
INFO 641 Strategic Information Systems Planning
INFO 642 Decision Support and Intelligent Systems
INFO 643 Information Technology Project Management
INFO/CISS 644 Principles of Computer and Information Systems Security
INFO 646 Security Policy Formulation and Implementation
INFO 654 Systems Interface Design
INFO 658 Securing the Internet of Things
INFO 691 Topics in Information Systems
INFO 693 Field Project in Information Systems
INFO 697 Guided Study in Information Systems

Total Hours 27

Total graduate credit hours required (minimum) 54

Students in the combined program who wish to have an M.B.A. concentration other than information resources management would need to complete an additional three courses for the concentration area.

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Program website: business.vcu.edu/graduate-studies/combined-mbams-in-information-systems (http://business.vcu.edu/graduate-studies/combined-mbams-in-information-systems)