INFORMATION SYSTEMS MAJOR, BUSINESS SPECIALIZATION

The Business Area of Concentration in the Information Systems (IS) program prepares students to be effective planners, users, and managers of information technologies and systems in the current environment of the technology-enabled business firm. The IS major focuses on the system design and implementation skills including database and web design, analytical skills for both strategic planning of IT and performance evaluation, and the managerial plus organizational knowledge required to manage information systems and applications based on business and customer requirements. The major’s core emphasizes the concepts of systems analysis and design, and the strategic use of information systems. In addition to a broad grounding in the key functional areas of marketing, operations, accounting, and finance, this major develops in-depth knowledge of information systems design and implementation, evaluation and planning of information technology investments, and managing dynamic technology projects.

Admission to the Major

See "Admission Requirements" on the Robert H. Smith School of Business page.

Requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>College Requirements (<a href="https://academiccatalog.umd.edu/undergraduate/colleges-schools/business/#collegerequirementstext">https://academiccatalog.umd.edu/undergraduate/colleges-schools/business/#collegerequirementstext</a>)</td>
<td></td>
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</tr>
<tr>
<td>BMGT302</td>
<td>Designing Applications for Business Analytics</td>
<td>3</td>
</tr>
<tr>
<td>BMGT402</td>
<td>Database Systems</td>
<td>3</td>
</tr>
<tr>
<td>BMGT403</td>
<td>Systems Analysis and Design</td>
<td>3</td>
</tr>
<tr>
<td>BMGT407</td>
<td>Information Systems Projects</td>
<td>3</td>
</tr>
<tr>
<td>Select two courses from list ‘A’ or one course from ‘A’ and one course from list ‘B’:</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

List A:
- BMGT405 Data Communications and Networking
- BMGT406 Developing Applications for the Web and Social Media
- BMGT408 Emerging Topics in Information Systems
- BMGT476 Technology Applications in Supply Chain Management
- BMGT485 Project Management
- BMGT404 Essential Data Skills for Business Analytics

List B:
- BMGT326 Accounting Systems
- BMGT332 Quantitative Models for Management Decisions
- BMGT385 Operations Management
- BMGT430 Data Modeling in Business
- BMGT461 Entrepreneurship
- BMGT484 Digital Marketing

Upper Level Economics Requirements

Select one of the following:

- ECON305 Intermediate Macroeconomic Theory and Policy
- ECON306 Intermediate Microeconomic Theory & Policy
- ECON330 Money and Banking
- ECON340 International Economics

Total Credits 21

1. CMSC132 Object-Oriented Programming II is approved substitute
2. CMSC424 Database Design is approved substitute
3. Repeatable if content differs

Note: Students who have completed either ECON325 or ECON326 can substitute these courses for ECON305 or ECON306 respectively.

In addition to the major requirements listed above, please consult the Summary of Bachelor of Science Degree Requirements (All Curricula) (https://academiccatalog.umd.edu/undergraduate/colleges-schools/business/#collegerequirementstext) on the College Requirements section or www.rhsmith.umd.edu for a listing of additional Smith School degree requirements that apply to all Smith School majors.

Four Year Plan

Click here (http://www.gened.umd.edu/for-students/forstudents-4yearplans-bus.html) for roadmaps for four-year plans in the Robert H. Smith School of Business.

Additional information on developing a four-year academic plan can be found on the following pages:

- 4yearplans.umd.edu
- the Student Academic Success-Degree Completion Policy (https://academiccatalog.umd.edu/undergraduate/registration-academic-requirements-regulations/academic-advising) section of this catalog