INFORMATION SYSTEMS CONCENTRATION

Requirements

Primary Concentration
The concentration in information systems consists of five courses, for a total of 15 credits. Requirements are detailed below:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISGB 7902</td>
<td>System Analysis &amp; Design</td>
<td>3</td>
</tr>
<tr>
<td>ISGB 7910</td>
<td>Info Systems Strategy &amp; Mgmt</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Three advanced-level courses, suggested to be chosen from a Specialization</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td>Total Credits</td>
<td>15</td>
</tr>
</tbody>
</table>

Secondary Concentration
The secondary concentration consists of any three advanced level courses for a total of nine credits.

1 An advanced-level course is any course with the code ISGB that is a 7000-level or higher. A list of courses in Information Systems can be found in their academic areas page.

Specializations
Specializations represent groups of courses that reflect the interests of students pursuing particular careers. They are not formal requirements, but represent the general recommendation of the faculty for pursuing particular career areas.

Business Analytics
Students prepare for careers in business analytics, a fast-growing area in all businesses. Students will be able to collect, clean, structure, integrate, and analyze data to drive management insight, informed decision-making and superior business performance. This track provides familiarity with concepts, frameworks, software tools and techniques, and trends in business analytics.

Courses in this group have the ISBA attribute.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISGB 7933</td>
<td>Audit Data Analytics</td>
<td>3</td>
</tr>
<tr>
<td>ISGB 7934</td>
<td>Artificial Intelligence</td>
<td>3</td>
</tr>
<tr>
<td>ISGB 7942</td>
<td>Optimization Models in Bus</td>
<td>3</td>
</tr>
<tr>
<td>ISGB 7944</td>
<td>Sports Analytics</td>
<td>3</td>
</tr>
<tr>
<td>ISGB 7957</td>
<td>Business Analytics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>ISGB 7977</td>
<td>Text Analytics</td>
<td>3</td>
</tr>
<tr>
<td>ISGB 7978</td>
<td>Web Analytics</td>
<td>3</td>
</tr>
<tr>
<td>ISGB 7980</td>
<td>Bus Modeling w/Adv Spreadsheets</td>
<td>3</td>
</tr>
<tr>
<td>ISGB 7985</td>
<td>Data Warehousing</td>
<td>3</td>
</tr>
<tr>
<td>ISGB 7988</td>
<td>Business Performance and Risk</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Management</td>
<td></td>
</tr>
<tr>
<td>ISGB 7990</td>
<td>Big Data Analytics</td>
<td>3</td>
</tr>
<tr>
<td>ISGB 799Z</td>
<td>Deep Learning</td>
<td>3</td>
</tr>
</tbody>
</table>

Students may also select from ISGB 7967 Data Mining for Business or ISGB 7973 Database Management as possible courses even though they do not have the ISBA attribute.

Enterprise Architecture
Prepares students to architect and build business systems, as well as to implement, manage, and leverage enterprise systems within organizations. The resulting systems will provide foundations for redesigned business processes, enterprise-wide integration and information sharing, novel services, and innovative business models. This track also includes a number of industry-specific courses that provide an in-depth understanding of IT applications within a specific industry, such as healthcare.

Courses in this group have the ISEA attribute.

<table>
<thead>
<tr>
<th>Course</th>
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<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISGB 7905</td>
<td>Web Applications Development</td>
<td>3</td>
</tr>
<tr>
<td>ISGB 7922</td>
<td>Healthcare IT</td>
<td>3</td>
</tr>
<tr>
<td>ISGB 7957</td>
<td>Project Management</td>
<td>3</td>
</tr>
<tr>
<td>ISGB 7973</td>
<td>Database Management</td>
<td>3</td>
</tr>
<tr>
<td>ISGB 7975</td>
<td>Business Analytics for Managers</td>
<td>3</td>
</tr>
<tr>
<td>ISGB 7985</td>
<td>Data Warehousing</td>
<td>3</td>
</tr>
</tbody>
</table>

Students specializing in the enterprise architecture track should also consider taking the Supply Chain Management course as one of their electives.