The new revised Management Information Systems curriculum is an 18-credit major, consisting of 12-credit core and 6-credit electives in four clusters. The 12 credit core covers the fundamental knowledge of programming, systems analysis and design, database, and project management, the primary building blocks of IT skills. This core is then complemented by four elective clusters corresponding to four major IT job categories: application development cluster, IT infrastructure and security cluster, business analytics cluster and supply chain technology cluster. This curriculum will potentially allow students to be better equipped with a focused set of knowledge and skills to meet the specific job requirements. Equally important, this curriculum gives students the freedom to choose and build their knowledge and skill set targeting one or more job types of their interests.

### Required Courses (12 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Pre-requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS 307</td>
<td>Intermediate Business Programming</td>
<td>MIS 207 or COM S 227, Credit or enrollment in MIS 301</td>
</tr>
<tr>
<td>MIS 310</td>
<td>Information Systems Analysis</td>
<td>Credit or enrollment in MIS 301</td>
</tr>
<tr>
<td>MIS 320</td>
<td>Database Management Systems</td>
<td>Credit or enrollment in MIS 301, Credit or enrollment in MIS 207 or COM S 227</td>
</tr>
<tr>
<td>MIS 340</td>
<td>Project Management</td>
<td>Credit or enrollment in MIS 301</td>
</tr>
</tbody>
</table>

### Elective Courses (6 credits)

Students are encouraged to take one of the following Elective CLUSTERS which provide a focus to the MIS degree program.

#### Application Development Cluster

- MIS 407 Advanced Business Programming
- MIS 447 Information Systems Development

#### Business Analytics Cluster

- MIS 436 Introduction to Business Analytics
- MIS 446 Advanced Business Analytics

#### IT Infrastructure and Security Cluster

- MIS 435 Information Systems Infrastructure
- MIS 445 Enterprise Systems and Architecture

#### Supply Chain Technology Cluster

- MIS 440 (SCM 440) Supply Chain Information Systems
- MIS 450 (SCM 450) Enterprise Resource Planning in Supply Chain

#### Free Electives (not offered on a regular basis)

- MIS 434 Electronic Commerce Strategy
- MIS 439 Topics in Management of Information Systems

MIS 207 (COM S 207 or 227) is a required course and should preferably be taken in the freshman or sophomore year.