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:

Course	Title	Credits
ISGB 7902	System Analysis & Design	3
ISGB 7910	Info Systems Strategy & Mgmt	3
Three advanced-level[1] courses, suggested to be chosen from a Specialization		9
Total Credits		**15**

Secondary Concentration

The secondary concentration consists of any three advanced level courses[1] 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.

Course	Title	Credits
ISGB 7933	Audit Data Analytics	3
ISGB 7934	Artificial Intelligence	3
ISGB 7942	Optimization Models in Bus	3
ISGB 7944	Sports Analytics	3
ISGB 7975	Data Visualization	3
ISGB 7977	Natural Language Processing and Applications	3
ISGB 7978	Web Analytics	3
ISGB 7980	Advanced Data Analytics with Excel & Power BI	3
ISGB 7985	Data Warehousing	3
ISGB 7988	Business Performance Analytics	3
ISGB 7990	Cloud Computing	3
ISGB 799Z	Deep Learning	3
ISGB 79AA	Advanced Python with AI	3

Students may also select from ISGB 7967 Machine Learning for Business or ISGB 7973 Data Management and SQL 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.

Course	Title	Credits
ISGB 7905	Capstone Project: Building Digital Solutions	3
ISGB 7922	Healthcare IT	3
ISGB 7955	Project Management	3
ISGB 7973	Data Management and SQL	3
ISGB 7975	Data Visualization	3
ISGB 7985	Data Warehousing	3

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