INFORMATION SYSTEMS MAJOR

Requirements

Major and Track Requirements

The information systems major includes six required courses and four information systems electives. All required courses are drawn from the information, technology, and operations area.

Course	Title	Credits
INSY 3432	Data Management and SQL	3
INSY 3436	Programming with Python	3
INSY 3441	Systems Analysis	3
INSY 3442	Web Apps Design and Development	3
INSY 4507	Project Management	3
INSY 4800	Global Information Technology Strategy and Management (capstone course)	3
Four electives:[1]		*12 to 14*
Business Analytics Track		
Digital Business Innovation Track		
Enterprise Architecture Track		

[1] Please note:

- Students are encouraged to complete their elective courses in one or more of the career-oriented tracks listed above, but any course with the INSY subject code numbered 3400-4999 (as well as CISC 3400 and CISC 4515) may count as an elective.
- For Information Systems majors pursuing a secondary concentration in Fintech, the three courses that comprise the secondary concentration may double-count as electives towards the Information Systems major. Moreover, for such students, FNBU 4454 Financial Modeling may count as an elective towards the major.

While most students choose all four electives from the information systems, technology, and operations area, up to two electives can be taken in other business areas, with the approval of the faculty adviser.

Information Systems Major Electives/Tracks

Students must take four advanced information systems electives. They are encouraged to use at least three advanced elective courses to specialize in their chosen track. Students can also create an optimal mix of electives across tracks to fit their prior expertise and career goals. While most students choose all four electives from the information, technology, and operations area, up to two electives can be taken in the Department of Computer and Information Science, from the below options:

Course	Title	Credits
CISC 3400	Java Programming	4
CISC 4515	Advanced Database Systems	4

Business Analytics Track Electives

Course	Title	Credits
INSY 3437	ST: Sports Analytics	3
INSY 4431	Web Analytics	3
INSY 4433	Advanced Python with AI	3
INSY 4434	Machine Learning for Business	3
INSY 4506	Business Analytics	3
INSY 4508	Advanced Data Analytics with Excel & Power BI	3

Digital Business Innovation Track Electives

Course	Title	Credits
INSY 3421	Accounting Information Systems	3
INSY 3437	ST: Sports Analytics	3
INSY 3438	ST: Cybersecurity in Bus	3
INSY 3450	ST: Fintech - An Introduction	3
INSY 4411	ST: Healthcare Info Tech	3
INSY 4412	ST: IT and Sustainability	3
INSY 4431	Web Analytics	3
INSY 4432	Mobile Commerce & Apps	3
INSY 4435	ST: AIS Consulting Project	3
INSY 4505	AI and Data-Driven Marketplaces	3
OPBU 3453	ST: Business Dynamics	3

Enterprise Architecture Track Electives

Course	Title	Credits
INSY 3421	Accounting Information Systems	3
INSY 3433	Programming with Java	3
INSY 3438	ST: Cybersecurity in Bus	3
INSY 4432	Mobile Commerce & Apps	3
INSY 4433	Advanced Python with AI	3
INSY 4435	ST: AIS Consulting Project	3
OPBU 3453	ST: Business Dynamics	3

Students must also complete the Gabelli School business and liberal arts Core Curricula. In addition, all students complete between three and seven liberal arts electives depending on their major requirements.

CIP Code

11.0401 - Information Science/Studies.

You can use the CIP code to learn more about career paths associated with this field of study and, for international students, possible post-graduation visa extensions. Learn more about CIP codes and other information resources.