

The Department of Information Systems and Technology

Information Systems and Technology Major (BIS)

A major in Information Systems and Technology (IST) emphasizes the application of computing technology in today's workplace and focuses on developing a combination of technical and business skills.

Students are challenged through coursework in programming, system design, and data and information management. At the same time, students focus on information systems as it pertains to business management and leadership.

Eligible students may seek to enroll in the [combined BIS/MS in Software Engineering](#).

Major Requirements (30 Credits)

Required Major Courses (10 Credits)

Course	Title	Credits
ISYT 1000	Intro to Info Sys & Tech	3
ISYT 1100	Data and Information Mgmt	3
ISYT 5000	Information Systems Capstone	3

Choose one of the two following courses:

Course	Title	Credits
CSC 1010	Programming for All	3
CSC 1051	Algorithms & Data Struc I	4

Choose one of the two following courses:

Course	Title	Credits
CSC 1020	Computing and the Web	3
CSC 2053	Platform Based Computing	3

Major Electives (5 Courses, 15 Credits)

In addition to the approved major electives listed below, students can petition for consideration of a course from another discipline to count towards the IST electives. The student must demonstrate that the course relates to information systems and technology and provide rationale for the substitution. Students should consult with their advisor for more details.

Course	Title	Credits
CPS 3000	Introduction to Project Mgmt	3
CSC 1035	Databases for Many Majors	3
CSC 1052	Algorithms & Data Struc II	4
CSC 2400	Computer Systems I	3
CSC 3010	Overview of Cybersecurity	3
CSC 4500	Artificial Intelligence	3
LDR 2030	Leading with a Digital Mindset	3
ODM 1100	Foundations of Strategic Mgmt	3
ODM 2000	Essentials of Finance & Acct	3
ODM 2040	Strategic Oper & Process Impro	3

Students may also choose one of the two following courses:

(Students in combined bachelors/masters program choose CSC 8490)

Course	Title	Credits
CSC 4480	Principles of Database Systems	3
CSC 8490	Database Systems	3

BIS Core Curriculum (39 Credits)

[BIS Core Curriculum](#)

Free Electives (51 Credits)

[Free Electives Policy](#)

Degree Credit Summary

- Major Credits: 30 credits
- Core Credits: 39 credits
- Free Elective Credits: 51 credits
- TOTAL REQUIRED DEGREE CREDITS: 120 credits

Note: The above credit totals are based on the minimum number of required credits in each degree area. The minimum number of required credits in each area listed above must be met. Credits taken beyond the required minimum for one area may not be applied to another area.