INFORMATION SCIENCE (INSC)

INSC 521: Database Design Concepts
3 Credits
The requirements capture, design, and development of relational database applications; analysis of business requirements and development of appropriate database systems.

Prerequisite: completion of all IN SC or SWENG core courses or with instructor or division approval

INSC 525: Applied Data Mining
3 Credits
Functional overviews of algorithms used in data mining will be presented and contemporary data mining software used to conduct a project.

Prerequisite: SC&IS535 or with instructor or division approval

INSC 526: Business Process Management and Integration
3 Credits
Design and development of business processes that align business objectives with Information Technology (IT) systems.

INSC 531: Information Technology Law
3 Credits
Examines the legal concepts/Issues applicable to the field of information technology and to information technology, software engineering, and computer professionals.

Prerequisite: completion of all IN SC core courses or with instructor or division approval

INSC 539: IT Systems Seminar
3 Credits
A culminating, integrative capstone experience for IN SC students, including a formal technical paper and in-class presentation.

Prerequisite: taken as the final course in the Master of Science in Information Science degree, or with instructor’s permission

INSC 561: Web Security and Privacy
3 Credits
A web-centric look at the latest techniques and practices in computer security as they apply to the Internet.

Prerequisite: CSE 543 or IST 815

INSC 594: Research Topics
1-15 Credits/Maximum of 15
Supervised student activities on research projects identified on an individual or small-group basis.

INSC 846: Network and Predictive Analytics for Socio-Technical Systems
3 Credits
This course will study the inter-relatedness of cyber-social and cyber-technical aspects of an organization or society as a whole. This course will employ several methods and measures from the area of social network analysis to study the inter-relatedness of cyber-social and cyber-technical aspects of an organization or society as a whole to detect and capture the dynamic patterns of group membership and structure. This type of analysis can be useful in uncovering potential threats and attacks, and predicting criminal behavior and evolution of criminal networks.

INSC 897: Special Topics
1-9 Credits/Maximum of 999
Formal courses given on a topical or special interest subject which may be offered infrequently.