

Information Systems Studies

The goal of the Information Systems Studies concentration is to prepare individuals for positions that use information technology to develop computer-based systems that support organizations. These positions involve the use of information technology to acquire, organize and communicate data; coordinate processes; and make decisions. Our graduates will be broadly educated and able to address business, technical, societal and ethical dimensions of information systems and should have an awareness of the importance of professional and personal integrity, cultural awareness and ethical behavior in their careers.

Concentration Requirements

One of the following: 3 cr

- Introduction to Information Systems*
- Introduction to Information Technology*

One of the following Logic courses*: 3 cr

- Programming Logic
- Philosophical Logic
- Digital Logic
- Mathematical Logic

Introductory Statistics* 3 cr

ITE 430: Database Management and Design 3 cr

ITE 330: Systems Analysis and Design 3 cr

Two of the following: 6 cr

- ITE 225: Computer Organization
- ITE 220: Computer Networking
- ITE 410: Software Engineering

One or more of the following business or organizational related courses: 3 cr

- Management
- Marketing
- Finance
- Strategic Processes

Electives in Information Systems 9 cr

ITE 499: Capstone 3 cr

* Will not satisfy part of the upper level requirements in the concentration. If there is a 2-course sequence required, the second one will count towards the concentration, the first one is an elective.

Note:

The 15 upper-division credits in a computer-related concentration, including the individualized studies concentration, must be less than ten (10) years old at the time of matriculation unless the student is employed in the computer field or has been actively pursuing formal or informal studies in the computer field. However, older courses may be used as free electives in the overall degree program.

Student Learning Outcomes

Students who graduate with a concentration in Information Systems will be able to:

1. collect, analyze and interpret information which includes:
 - being able to use current software applications of the computer; and
 - collecting, analyzing, interpreting and reporting numerical and graphical data;
2. design and implement computer information systems programs;
3. know the theoretical and logical understanding of computer architecture and operation, and be able
 - to evaluate and select appropriate computing and related telecommunication technologies to satisfy needs and solve problems in a global economy; and
 - to acquire technological competencies for future developments;

4. understand and apply the functions and operations of an organization, including accounting, management, marketing, finance, and other related faculty-approved business or organizational content;
5. explain how the historical development, current status, and future trends of computing will help them adapt to rapid changes in computer technology;
6. explain how computing technology impacts the social, psychological, ethical, political, economic, and environmental arenas;
7. work effectively with others on teams; and
8. explain how information technology supports a global economy by helping to overcome cultural, national and diversity issues.