

MIS Major

Student outcomes and competencies

Outcome 1: Students shall have a good understanding of information systems technology.

Competency 1.1 Understand programming languages and applications development facilities.

Competency 1.2 Understand database management systems (DBMSs).

Competency 1.3 Understand computer-assisted systems engineering (CASE).

Competency 1.4 Understand the appropriate use of a representative set of personal productivity software.

Outcome 2: Students shall have a good understanding of information systems concepts and processes.

Competency 2.1 Understand systems theory.

Competency 2.2 Understand systems development.

Competency 2.3 Understand database theory, design, and management.

Competency 2.4 Understand information and function analysis.

Competency 2.5 Understand information systems design.

Competency 2.6 Understand systems implementation and testing strategies.

Outcome 3: Students shall have a good understanding of organizational functions and management.

Competency 3.1 Understand organization theory and behavior.

Competency 3.2 Understand the functional areas of business, such as finance, accounting, and marketing, which are served by information systems.

Competency 3.3 Understand information systems management.

Competency 3.4 Understand project management.

Competency 3.5 Understand change management.

Competency 3.6 Understand legal and ethical aspects of information and information systems.

Competency 3.7 Understand professional conduct in the information systems field.

Competency 3.8 Understand how management information systems enhance decision making.

Outcome 4: Students shall have developed effective information systems management skills

Competency 4.1 Be able to assist in defining and planning information systems.

Competency 4.2 Be able to elicit information requirements for applications and assist in designing information systems.

Competency 4.3 Be able to implement non-complex (routine) information systems applications.

Competency 4.4 Be able to manage information systems development and operations.

Outcome 5: Students shall be able to communicate effectively.

Competency 5.1 Be able to prepare and present expected outputs from the analysis,

design, implementation, and maintenance phases of information system development.

Competency 5.2 Be able to write formal, clear, and accurate documentation of information systems.

Competency 5.3 Be able to orally communicate information systems ideas effectively.