

# Informatics Program 2020 through 2025 Assessment Plan for the IU Kokomo BS in Informatics

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## I. Introduction and mission statements

The Bachelor of Science degree in Informatics is one of the Bachelor degrees currently offered within the IU Kokomo School of Sciences. The degree was initiated in the fall of 2006 and replaced the prior Computer Information Systems (CIS) program.

**Mission Statement:** There is a great need and opportunity for professionals trained in state-of-the-art information technology and applied computing, including interdisciplinary areas, with an emphasis on the social, organizational, and human issues of technology. The Informatics degree equips students with problem-solving, critical thinking, computational thinking, and communication skills. The Informatics core courses and cognate specialty courses ensure that graduates will have the required knowledge concerning the design, development, implementation, and evaluation of information systems in different application areas.

Informatics is committed to student learning, innovation, regional engagement, and the interdisciplinary application of technology. These goals are consistent with IU Kokomo's mission to "...enhance the educational and professional attainment of the residents of North Central Indiana..."

### **The Informatics program goals at IU Kokomo are:**

Goal A: Apply Problem-Solving Skills to Solve Programming Problems

Goal B: Demonstrate Communication and Teamwork Skills

Goal C: Gather and Organize Information to Design Organizational Information Systems

Goal D: Analyze Social, Organizational, and Ethical Implications of Information Integration

## **II. Program goals and learning outcomes**

### **Goal A: Apply Problem-Solving Skills to Solve Programming Problems**

Student Learning Outcomes:

- A1. Students will design solutions to programming problems and utilize basic programming logic structures for the solution's implementation (flowchart, pseudo code, sequential, decision, and repetition structures).
- A2. Students will utilize basic data structures and algorithms to design, develop, and test computer programs.
- A3. Students will analyze, design, and develop a working solution to a business information problem that performs essential business functions.

### **Goal B: Demonstrate Communication and Teamwork Skills**

Student Learning Outcomes:

- B1. Students will communicate effectively in collaborative teams to solve, document, and orally present a solution to a technical problem.
- B2. Students will demonstrate the ability and communication skills to function effectively in teams to achieve a common goal

### **Goal C: Gather and Organize Information to Design Organizational Information Systems**

Student Learning Outcomes:

- C1. Students will utilize digital representations of information for presentation and/or processing.
- C2. Students will organize and categorize information in a database to improve understanding and information sharing.
- C3. Students will apply interaction design techniques, including user/contextual issues, while designing and developing a usable information system.

### **Goal D: Analyze Social, Organizational, and Ethical Implications of Information Integration**

Student Learning Outcomes:

- D1. Students will analyze the social, ethical, and legal implications/impacts of technology use on individuals and the society.
- D2. Students will analyze the social and organizational issues surrounding the implementation and use of information systems in modern organizational contexts.