Davenport University
Department of Computer Information Science

1. CISP111, Required Planning and Development

2. 3 credits

3. Course coordinator: Gabriela Ziegler

4. Textbook
   9780134204925
   Modern Systems Analysis and Design
   Valcich & George
   8th, 17 / Pearson

5. Specific course information
   a. Catalog description: This course surveys the main components of the business systems cycle. The five phases of the systems development life cycle (SDLC) (systems planning, system analysis, systems design, systems implementation, and system operation and support) will be investigated. Students will look at how many of the typical business needs are incorporated into a business system. These may include invoicing, accounts receivable, order entry, inventory, accounts payable, payroll, manufacturing, and sales/marketing. Participation in a group project, site visit, or case study will give students a sense of group dynamics in real-world systems development projects.
   b. Prerequisites: CISP100

   c. Required course

6. a. Course Learning Outcomes:

1. Describe major system's components such as: hardware and software requirements (including system flowcharts), type of computer programs, types of computer files, systems documentation, computer programming fundamentals, and batch control.
2. Describe each of the five phases of the SDLC.
3. Identify and employ logical steps and practical problem-solving processes in program/project development.
4. Describe how information systems, including the Internet, intranets, and extranets support business requirements in today's intensely competitive environment.

5. Describe how systems analysts interact with users, management, and other information systems professionals in a typical business organization.
6. Create context diagrams, data flow diagrams (DFDs), organizational charts, and Gantt charts using commonly available software such as Microsoft Visio and Microsoft Project.
7. Demonstrate the ability to work as a team member in the development of a technical project or system analysis.
8. Analyze business cases to determine optimum problem-solving, data analysis, and systems analysis techniques.

b. Student Outcomes assessed by CISP111

1. To analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.

2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.

5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline

c. Mapping of Course Learning Outcomes to Student Outcomes

Course Learning Outcomes 2, 3 6 and 7 → ABET SO 1
Course Learning Outcomes 2, 3, 6, and 8 → ABET SO 2
Course Learning Outcome 7 → ABET SO 5

7 Course Content:

Topic or Subtopic (Number of hours devoted to a topic are shown in parenthesis)

1. Information Systems (3)
2. Systems Analysis and Design (6)
3. Information Systems Impact on Business (3)
4. SDLC (15)
5. DFD and MS Visio (6)
6. Managing Projects (6)
7. Case Tools (3)