Revised By: Eric Cheng
A. **TITLE:** - SYSTEMS ANALYSIS AND DESIGN

B. **COURSE NUMBER:** CITA 204

**SHORT TITLE:** - SYSTEMS ANALYSIS

C. **CREDIT HOURS:** 3

D. **WRITING INTENSIVE COURSE (OPTIONAL):** N/A

E. **COURSE LENGTH:** Semester

F. **SEMESTER(S) OFFERED:** Fall/Spring

G. **HOURS OF LECTURE, LABORATORY, RECITATION, TUTORIAL, ACTIVITY:** 2 hours lecture, 2 hours laboratory

H. **CATALOGUE DESCRIPTION:** A course designed to guide the student through the evolution of a system, an analysis of the present flow of information and the specifications, selection and implementation of information processing systems. The scope of a system development study will transcend mere knowledge of specific systems to include a study of the total management system.

I. **PRE-REQUISITES/CO-COURSES:** Database Applications and Concepts (CITA 215), or Introduction to Programming (CITA 180), or permission of instructor.

J. **GOALS (STUDENT LEARNING OUTCOMES):**

After completion of this course the student will be able to:

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<tr>
<th>Course Objective</th>
<th>Institutional SLO</th>
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<tr>
<td>a. Identify the role of information technology in supporting operational and business requirements, and management decision-making</td>
<td>2. Crit. Thinking</td>
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<td>b. Apply the systems development life cycle model to a computer-based information system</td>
<td>2. Crit. Thinking 3. Prof. Competence</td>
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<td>c. Use the tools and techniques of systems analysis and design professionals</td>
<td>2. Crit. Thinking 3. Prof. Competence</td>
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<td>d. Understand and use the terminology associated with information systems development</td>
<td>3. Prof. Competence</td>
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<td>e. Demonstrate the ability to interact with clients, users, and management, as well as with team members in promoting a successful project outcome</td>
<td>1. Communication 4. Inter/intrapersonal Sk.</td>
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<td>f. Employ project management and/or team leadership skills in planning, coordinating, and ensuring quality of the assigned tasks.</td>
<td>1. Communication 4. Inter/intrapersonal Sk.</td>
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M. EQUIPMENT: Computer classroom

N. GRADING METHOD: (P/F, A-F, etc.) A-F

O. MEASUREMENT CRITERIA/METHODS: Assignments and examinations

P. DETAILED TOPICAL OUTLINE:

I. The Role of System Analysis and Design at the Enterprise Level
II. Systems Planning – Analyzing the Business Case
III. Requirements Gathering and Modeling
IV. Enterprise Modeling and Development Strategies
V. Systems Architecture and Design
VI. Systems Implementation
VII. Systems Operation and Support
VIII. Tools of the Trade
IX. Advanced Topics

Q. LABORATORY OUTLINE: n/a