

Course: IS/ICT-303

Title: Systems Analysis

Term: Spring 2023

Credit hours: 3

Meeting days/time/location: Online

## **Instructor Information**

Name: Austin Stroud

Email: [Austin.Stroud@uky.edu](mailto:Austin.Stroud@uky.edu)

Virtual Office hours: Contact me via a message on Canvas to setup a time.

Preferred method of contact: Canvas.

## **Course Description**

This course examines and applies the principles of information systems analysis. It surveys project management, feasibility and analysis, systems requirement definition and resource allocation. It utilizes a structured systems development methodology that spans the entirety of the information system lifecycle, which starts with the conception of the need for a specific information system and ends with the implementation of that system. The course utilizes a case study approach in which students initiate the analysis and logical design of a limited-scope information system.

## **Course Prerequisites**

ICT 202

## **Required Materials**

\* There is no required textbook since everything is linked within the course.

\* Extensive lecture notes will be provided that accompany the textbook reading.

## **Student Learning Outcomes**

The overall course objective is to give you the concepts and skills you need to analyze and design information systems. After the successful completion of this course, you will be able to:

\*Provide a solid understanding of the fundamental principles of information systems and system analysis.

\*Enhance critical thinking skills using scenario-based tasks to help students develop organization, analysis, problem-solving, and decision-making skills they can apply in the workplace.

\*Provide an understanding of some of real-life ethical issues in an Information Technology (IT) environment.

## **Course Details**

### **Tentative Course Schedule**

Module 0 (January 9 - January 15)

-Introduction to the Course

Module 1 (January 16 - January 22)

-Introduction to Systems Analysis and Design

Module 2 (January 23 - January 29)

-Analyzing the Business Case

Module 3 (January 30 - February 5)

-Managing Systems Projects

Module 4 (February 6 - February 12)

-Requirements Modeling

Module 5 (February 13 - February 19)

-Data and Process Modeling

Module 6 (February 20 - February 26)

-Object Modeling

Module 7 (February 27 - March 5)

-Development Strategies

Module 8 (March 6 - March 12)

-Midterm Exam

Spring Break (March 13 - March 19)

Module 9 (March 20 - March 26)  
-User Interface Design

Module 10 (March 27 - April 2)  
-Data Design

Module 11 (April 3 - April 9)  
-System Architecture

Module 12 (April 10 - April 16)  
-Managing Systems Implementation

Module 13 (April 17 - April 23)  
-Managing Systems Support and Security

Module 14 (April 24 - April 30)  
-Final Exam

## Course Activities and Exams

### Summary Description of Course Assignments

- 12 quizzes worth 10 points each (120 points total)
- 2 exams worth 50 points each for the midterm and final (100 points total)
- 7 discussion assignments worth 10 points each (70 points total)
- 6 written assignments worth 10 points each (60 points total)
- 350 points total

## Grading Scale

*90 – 100% = A*

*80 – 89% = B*

*70 – 79% = C*

*60 – 69% = D*

*Below 60% = E*

## Midterm Grades

*For undergraduates, midterm grades will be posted in myUK by the deadline established by the University Senate and published in the [Academic Calendar](http://www.uky.edu/registrar/content/academic-calendar).  
(<http://www.uky.edu/registrar/content/academic-calendar>)*

## **Attendance Policy/Acceptable Documentation**

Please contact your instructor as soon as possible if things arise that prevent you from completing your work on time.

## **Assignment Policies**

### **Assignment Submissions**

All assignments will be submitted on Canvas.

### **Returning Assignments to Students**

Feedback will be given and all assignments graded within a week of an assignment's due date.

### **Late Assignments**

If an absence is not excused or cleared by the instructor, then any late assignments will be subject to a 10% penalty. (Per the [University Senate Rules](#), within some guidelines late assignments must always be accepted for excused absences. (<https://www.uky.edu/universitysenate/rules-regulations>)]

## **Academic Policy Statements**

The Senate's [Academic Policy Statements](#).

## **Academic Offenses (Cheating, Plagiarism, and Falsification or Misuse of Academic Records)**

The Senate-maintained web page of [Rules Regarding Academic Offenses](#).

## **Resources**

UK's [Distance Learning Library Services](#), [Tutoring and Coaching Resources](#).

## **Diversity, Equity, and Inclusion**

Senate Council-approved [Syllabus Statement on Diversity, Equity, and Inclusion \(DEI\)](https://www.uky.edu/universitysenate/syllabus-dei).  
(<https://www.uky.edu/universitysenate/syllabus-dei>)]