

Course: IS/ICT-303

Title: Systems Analysis

Term: Spring 2022

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**

\* No required textbook.

\* Extensive lecture notes will be provided.

\* Other reading materials will be posted on Canvas every week.

## **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**

January 10-16: Week 1

January 17-23: Week 2

January 24-30: Week 3

January 31-February 6: Week 4

February 7-13: Week 5

February 14-20: Week 6

February 21-27: Week 7

February 28-March 6: Week 8

March 7-13: Week 9

**Spring Break March 14-20**

March 21-27: Week 10

March 28-April 3: Week 11

April 4-10: Week 12

April 11-17: Week 13

April 18-24: Week 14

April 25-May 1: Week 15

No Final Exam

## **Course Activities and Exams**

### Summary Description of Course Assignments

#### \* Assignments

- Assignment #1 – Conceptual Data Modeling (8 points)

- Assignment #2 – Relational Tables (8 points)

- Assignment #3 – Basic SQL (7 points)

- Assignment #4 – Web Data Structuring (1) (8 points)

- Assignment #5 – Web Data Structuring (2) (8 points)

- Assignment #6 – DFD (1) (8 points)

- Assignment #7 – DFD (2) (5 points)

- Assignment #8 – Class Diagram (8 points)

- Assignment #9 – Wireframing (10 points)

- Assignment #10 - Task Analysis (5 points)

- Topic Essay (10 points)

- Website Critique (5 points)

#### \* Quizzes

There are two quizzes in Week 7 & 13. Each quiz will consist

of true/false, multiple choice, and short answer questions. Each quiz is worth 7.5 points for a total of 15 points.

## **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](https://www.uky.edu/universitysenate/rules-regulations), 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>)]