		US CREDITS: 3/0/3
or CS 1070 Introduction to Information Syst or ITC 1070 Information Technology Funda CS 2179 Business Information Systems Data exploitation for decision making pu		
Data exploitation for decision making purposes: Business Intelligence, Business Analytics, Data Visualization, Reporting.		
This course focuses on the two main areas of Business Intelligence i.e. Visualization and Reporting which are taught through business case studies. Upon successful completion, students will be able to transform data into intelligence. More specifically, students will use software tools to modify data for analysis, perform data discovery and analysis, and create visual, interactive reports.		
 As a result of taking this course, the student should be able to: Demonstrate ability to visualize and report data using appropriate software tools Explore data through creation of interactive dashboards, and retrieve insights in support to data interpretation Evaluate and explore big data to find patterns, trends and associations. 		
 In congruence with the learning and teaching strategy of the College, the following tools/activities are used: Lectures and class discussions. Laboratory practical sessions and problem solving. Office hours held by the instructor to provide further assistance to students. Use of the Blackboard Learning platform to further support communication, by posting lecture notes, assignment instruction, timely announcements, and online submission of assignments. 		
Summative:		
First Assessment: Midterm Project – Lab Examination	40%	Explore and Visualize real world data and answer business questions
Final Assessment: Lab Examination	60%	Explore, visualize and report of real word data and answer business questions
	Visualization and Reporting which are tau successful completion, students will be More specifically, students will use sof perform data discovery and analysis, and As a result of taking this course, the students are sult of taking this course, the students are sult of taking this course, the students are supported to data through creation of interior in support to data interpretation. In congruence with the learning and teach following tools/activities are used: Lectures and class discussions. Les problem solving. Office hours held by the instructor students. Use of the Blackboard Learning percommunication, by posting lecture announcements, and online submers. Summative: First Assessment: Midterm Project — Lab Examination	Visualization and Reporting which are taught throusuccessful completion, students will be able to More specifically, students will use software too perform data discovery and analysis, and create volume As a result of taking this course, the student should 1. Demonstrate ability to visualize and report data 2. Explore data through creation of interactive doin support to data interpretation 3. Evaluate and explore big data to find patterns, In congruence with the learning and teaching stratefollowing tools/activities are used: > Lectures and class discussions. Laborator problem solving. > Office hours held by the instructor to proving students. > Use of the Blackboard Learning platform to communication, by posting lecture notes, a announcements, and online submission of Summative: First Assessment: Midterm Project — Lab Examination

	Formative: Business case problems – team work	0%	
	The First Assessment tests Learning Outcomes 1 and 3. The Final Assessment tests Learning Outcomes 1, 2 and 3. The final grade for this module will be determined by average assessment grades, based on the predetermined weights for estudents pass the comprehensive assessment that tests all Leathis module and the average grade for the module is 40 or high required to resit any failed assessments. (Guidelines and assessment rubrics are distributed on the first of with the course outline).	ging all summative each assessment. If rning Outcomes for er, students are not	
INDIO A TIVE	,		
INDICATIVE READING:	REQUIRED READING: Ball, Nocole (2020). SAS® Visual Analytics 1 for SAS® Viyunstitute Inc.	/a®: Basics, SAS	
	Ball, Nicole (2020). SAS® Visual Analytics 2 for SAS® Viya®: Advanced, SAS Institute Inc.		
	Course notes provided by the instructor.		
	RECOMMENDED READING:		
	D. Donohoe, E. Costello (2020). Data visualisation literacy in An exploratory study of understanding of a learning dashboard	•	
INDICATIVE	REQUIRED MATERIAL: N/A		
MATERIAL: (e.g. audiovisual, digital material, etc.)	RECOMMENDED MATERIAL: N/A		
COMMUNICATION REQUIREMENTS:	Use of appropriate academic conventions as applicable ir communications.	n oral and written	
SOFTWARE REQUIREMENTS:	SAS Viya for Learners (Cloud based)		
WWW RESOURCES:	https://www.sas.com/en_us/learn/academic-programs/students https://www.sas.com/en_us/learn/academic-programs/resource learning.html http://support.sas.com/documentation/onlinedoc/va/index.html		

INDICATIVE CONTENT:

1. SAS Visual Analytics 1

- 1.1. Preparing Data using SAS Studio
- 1.2. Analysing Data using SAS Visual Analytics
- 1.3. Designing Reports using SAS Visual Analytics

2. SAS Visual Analytics 2

- 2.1. Restructuring Data for Geographic Mapping & Forecasting
- 2.2. Restructuring Data for Forecasting
- 2.3. Performing Network Analysis
- 2.4. Performing Path Analysis
- 2.5. Performing Text Analytics
- 2.6. Creating Advanced Data Items
- 2.7. Creating Advanced Filters
- 2.8. Using Parameters to create Advanced Reports