

INTERNATIONAL UNIVERSITY OF GRAND-BASSAM

Excellence • Accountability • Opportunity

BACHELOR OF SCIENCE IN DATA SCIENCE (BSDSC) $\frac{2020\text{-}2021}{}$

UNIV. CORE REQUIREMENTS (45 CR)	CR	GR
I. Communications (6 Credits)		
ENG 1301 English Composition I	3	
ENG 1302 English Composition II	3	
II. Mathematics (4 Credits)	ı	
MTH 1401 Calculus I	4	
III. Mathematics Reasoning (3 Credits)	1 2	1
MTH 2300 Discrete Mathematics	3	
IV Notural Sciences (9 Credits)		
IV. Natural Sciences (8 Credits) PHY 1401 Principles of Physics I	1	
PHY 1401 Principles of Physics II	4	
FH 1 1402 Filliciples of Filysics II	4	
V. Humanities (3 Credits) Select one course		
See List of Humanities Courses	3	
See List of Humainties Courses		
VI. Government (6 Credits)		
POL 1301 Intro. to American Government	3	
POL 2315 Global Issues	3	
	I	l
VII. History (6 Credits) Select one course		
HIS 1305 Intro. to Afri. & African-American His.	3	
HIS 2305 Survey of US History	3	
VIII. Visual and Performing Arts (3 CR) Select	one cou	rse
ART 1302 History of Western Art	3	
ART 1303 Art of Africa, Oceania and Americas	3	
ART 2301 Contemporary African Art	3	
ART 2305 Introduction to Theater	3	
IV Contal Catanage (2 Condita) Calant		
IX. Social Sciences (3 Credits) Select one course See List of Social Science Courses	3	1
See List of Social Science Courses	3	
X. Writing (3 Credits)		
COM 2301 Technical Communication	3	
COM 2301 Technical Communication	3	
PROGRAM REOUIREMENTS (19 Credits)		
MTH 1402 Calculus II	4	
MTH 2302 Introduction to Linear Algebra	3	
CSC 2300 Principles of Computer Science	3	
CSC 3302 Data Structures	3	
STA 3300 Exploratory Data Analysis & Graphics	3	
STA 4300 Applied Regression Analysis	3	

MAJOR REQUIREMENTS (34 Credits)			
DSC 2301 Principles of Data Science with	3		
Python and SQL 3			
DSC 2302 R Programming for Data Science	3		
DSC 3300 Data Warehousing	3		
DSC 3301 Introduction to Machine Learning	3		
DS 3303 Relational and No SQL Databases	3		
DSC 4305 Data Analytics	3		
DSC 4315/CSC 4315 Introduction to Artificial Intelligence			
DSC 4320/CSC 4320 Computer Graphics and	3		
Data Visualization			
DSC 4499 Capstone	4		
DSC 4333 Internship	3		
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ADVANCED DSC COURSES (13 Credits)			
DSC 4498 Special Topics in Data Science	4		
Select three courses			
CIS 4303 Introduction to Business Intelligence	3		
MTH 4311 Operations Research	3		
STA 4301 Applied Statistical Methods	3		
STA 4302 Monte-Carlo Simulation and	3		
Resampling Methods	3		
ELECTIVES (9 Credits)			
TOTAL NUMBER OF CREDITS	120		