

Ashesi University College Graduation Requirements

Management Information Systems Required Course - Class of 2019	Ashesi Credits	Course Code
Mandatory Courses (all required)		
Written and Oral Communication	1	ENGL 112
Pre-Calculus / Calculus 1*	1	MATH141_A/MATH142_A
Pre-Calculus 2 / Calculus 2*	1	MATH141_B/ MATH142_B
Text & Meaning	1	ENGL113
Foundations of Design and Entrepreneurship I	1	BUSA161_A
Foundations of Design and Entrepreneurship II	1	BUSA161_B
Statistics	1	MATH151
Introduction to Computing & Programming / Programming 1	1	CS111
Microeconomics	1	ECON101
Macroeconomics	1	ECON102
Social Theory	1	SOAN121
Quantitative Methods	1	MATH143
Finance for Non-Finance Managers	1	BUSA224A
Research Methods / Social Research Methods	1	SOAN229
Applied Calculus (ONLY if Pre-Calculus Track)	1	MATH144
Leadership Seminar 1: What Makes a Good Leader?	0.5	SOAN111
Leadership Seminar 2: Rights, Ethics, and Rule of Law	0.5	SOAN211
Leadership Seminar 3: The Economic Development of a Good Society	0.5	SOAN311
Leadership Seminar 4: Leadership as Service	1	SOAN411
Total (Pre-Calculus Track*)	17.5	
Total (Calculus Track*)	16.5	

Mandatory Africana Electives: Select one course from the list		
Africa in an International Setting: Pan-Africanism	1	POLS231_202
Africa in the International Setting	1	POLS231_201
Africa in the International Setting: A Survey of Africa's integration into the Global System	1	POLS231_203
Africa in the International Setting: China in Africa	1	POLS231_204
Africa in the International Setting: Refugees and Forced Migration in Africa	1	POLS231_205
African Literature	1	ENG215
Africa Music and Dance: Traditional and Contemporary Music	1	SOAN233
African Philosophical Thought	1	POLS233
African Repertory: Music and Dance	1	SOAN231
Total	1	

Total Courses (Pre-Calculus Track*)	18.5	
Total Courses (Calculus Track*)	17.5	

MIS Required Major Courses (all required)		
Managerial Accounting	1	BUSA311

Competitive Strategy	1	BUSA405
Computer Programming for CS (formerly Programming 2)	1	CS212
Database Management	1	CS323
Web Technologies	1	CS341
System Administration Lab	0.5	CS_TBD
Software Engineering	1	CS415
Advanced Database Systems	1	CS424
E-Commerce	1	CS442
IT Infrastructure	1	MIS_TBD
IS Project Formulation & Management	1	MIS_TBD
IS Strategy, Management, and Acquisition	1	BUSA405
Total	11.5	

MIS Required Major Selected Elective: Select one course from the list		
Data Structures and Algorithms	1	CS222
Discrete Structures and Theory	1	CS221
Total	1	
MIS Required Major Electives: Select two courses from list		
Operations Management	1	BUSA304
Organizational Behavior	1	BUSA332
Marketing	1	BUSA341
International Trade & Policy	1	BUSA350
Human Resource Management	1	BUSA430
Real Estate Development	1	BUSA431
Service Marketing	1	BUSA441
Strategic Brand Management	1	BUSA442
Supply Chain Management	1	BUSA444
Development Economics	1	BUSA451
New Product Development	1	BUSA462
Data Structures and Algorithms (if not taken as required elective)	1	CS222
Discrete Structures and Theory (if not taken as required elective)	1	CS221
Intermediate Computer Programming / Programming 3	1	CS313
Human Computer Interaction	1	CS314
Computer Org. & Architecture	1	CS331
Concepts of Programming languages	1	CS413
Mobile Web Programming	1	CS443
Artificial Intelligence	1	CS454
VLSI: Embedded Systems	1	CS451
Computer Graphics	1	CS452
Robotics	1	CS453
Applied Cryptography and Computer Science Security	1	CS455
Data Mining	1	CS457

Algorithm Design and Analysis	1	CS456
Total	2	

MIS Required Major Capstone: Select one color-coded option 2 courses		
<i>Thesis 1</i>	1	BUSA400_A/CS400_A
<i>Thesis 2</i>	1	BUSA400_B/CS400_B
<i>Entrepreneurship 1</i>	1	BUSA401_A
<i>Entrepreneurship 2</i>	1	BUSA402_B
Applied Senior Project	1	BUSA410/CS410
Additional MIS Elective (select one from MIS Elective list below)	1	
Total	2	

MIS Total Courses: Mandatory + Required + Elective (Pre-Calculus Track*)	35	
MIS Total Courses: Mandatory + Required + Elective (Calculus Track*)	34	

* Note: Students are placed on either the Pre-Calculus Track or the Calculus Track. Either Calculus 1 and Calculus 2, OR Pre-Calculus 1, Pre-Calculus 2, and Applied Calculus, are required to satisfy the Calculus requirement.