Bachelor of Science in Information Systems
Category I

Bachelor of Science in Information Systems	Credit	CCAF Transfer Credits	Course Credits to be taken at UA Grantham
General Education			
GU100 UAG Engage	1		1
BIO101 Life Science I	4	4	
BIO102 Life Science II	4		4
ECN206 Macroeconomics	3	3	
EN101 English Composition I	3	3	
EN261 Fundamentals of Technical Writing	3		3
MA100 Quantitative Reasoning	3	3	
HU260 Strategies for Decision Making	3	3	
HU275 Professional Ethics	3		3
GP210 American Government	3	3	
PS101 Fundamentals of Psychology	3	3	
SO101 Intro to Sociology	3	3	
General Education Requirements	36	25	11
Program Core			
CO101 Introduction to Public Speaking	3	3	
CO201 Conflict and Communications	3	3	
CO395 Digital Media	3	3	
CS207 Web Analytics	3	3	
CS192 Programming Essentials	3		3
CS265 Programming in C++	4		4
CS340 Operating Systems	3	3	
CS405 Software Engineering	4		4
FIN210 Personal Finance	3	3	
IS211 Intro Info Systems Security	3	3	
IS216 Computer Networks	3	3	
IS231 E-Commerce	3		3
IS242 Management Information Systems	3	3	
IS301 Web Design I	4		4
IS311 Security Operations	3		3
IS320 Database Applications	3		3
IS336 Systems Analysis and Design	3		3
IS345 Querying in SQL	3		3
IS351 Info Systems Project Management	3		3

IS355 Risk Management	3		3
IS376 Advanced Database Systems	3		3
IS450 Security Trends and Legal Issues	3		3
IS498 Senior Research Project	3		3
IT340 Cloud Computing Essentials	3		3
IT480 DevOps	3	3	
MA230 Mathematical Statistics I	3	3	
MGT150 Principles of Business Management	3	3	
Program Core Requirements	84	36	48
Total Degree Credit Hours	120	61	59

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The objective of the Information Systems degree program is to provide students with the knowledge and skills to enter the workforce and advance in roles requiring the application of technology to information systems. Required coursework builds a foundation and broad base of skills in programming, web design and systems analysis and design. Elective courses are available in business, computer science or information systems.

Student Learning Outcomes
- Apply knowledge of computing and mathematics appropriate to the discipline
- Analyze a problem and identify and define the computing requirements appropriate to its solution
- Design, implement and evaluate a computer-based system, process, component, or program to meet desired needs
- Address professional, ethical, legal, security and social issues and responsibilities
- Communicate effectively with a range of audiences
- Analyze the local and global impact of computing on individuals, organizations, and society
- Recognize the need for and an ability to engage in continuing professional development
- Use current techniques, skills, and tools necessary for computing practice
- Analyze processes that support the delivery and management of information systems