April 6th, 2021

ISBA CURRICULUM & CAREER PATHS

Courses	IS Analyst/ Management Consultant	IT System Administrator /CyberSecurity	Business/Data Analyst	Application Developer/ Ecommerce
3710 – Database	X	X	X	X
3720 – System Anal & Design	X	X		X
3730 or CMSI Programming Requirement	X	X	X	X
3740 - Bus Process Mgmt ERP	X			X
4715 – Bus Apps Using SQL		X	X	X
4740 – Fin Modeling Analytics	X		X	X
4750 – Web & App Dev		X		X
4755 – Intro to Big Data	X	X	X	X
4760 – Data Vis & GIS			X	X
4770 – CyberSecurity	X	X		X
4780 - Anal for Bus Strategy	X		X	
4790 – Machine Learning			X	
4798 Electives:				
Networking & Cloud Computing	X	X	X	X
Ecommerce		X		X
IT Strategy	X			
Blockchain	X	X		
Text-Mining			X	
Computer Science Courses (B.S. degree)		X	X (or Math minor)	X

Course #	ISBA Course Name	Type	Offered	Other Information
3710	**Database Management Systems**	**Required**	**Every Semester**	
3720	Systems Analysis & Design	Elective	Every Fall	Assists students with Capstone Proposal
3730	**Programming for Business Applications**	**Required if no CMSI course**	**Every Fall**	Fills ISBA programming requirement
3740	Business Process Mgmt through ERP	Elective	Every Other Fall	Starting Fall 2023
4715	Developing Business Applications Using SQL	Elective	Every Spring	
4740	Financial Modeling & Analytics	Elective	Every Other Spring	
4750	Business Web & App Development	Elective	Every Other Spring	CMSI offering 2 unit courses
4755	Introduction to Big Data	Elective	Every Other Fall	
4760	Data Visualization & GIS	Elective	Every Other Fall	
4770	Cybersecurity	Elective	Every Other Spring	
4780	Analytics for Business Strategy	Elective	Every Other Spring	
4790	Machine Learning	Elective	Every Other Spring	
4796	Capstone Proposal Development - 1 unit	Elective	Every Fall	Assists students with Capstone Proposal
4797	**Capstone Project**	**Required**	**Every Spring**	

SPECIAL STUDIES (4798 COURSES)

Network & Cloud Computing	Elective	Fall 2021
Ecommerce	Elective	Fall 2022
IT Strategy	Elective	Spring 2022
Blockchain	Elective	Fall 2022 (tentative)
Text-Mining	Elective	Spring 2023
FinTech	Elective	