

2023-24 ACADEMIC MAP

Bachelor of Applied Science (BAS) – Business Administration

Concentration: Computer Information Systems/Cybersecurity

TOTAL HRS: 120



Academic map is a guide to help students stay on track to degree completion. Consult undergraduate catalog and academic advisor for other requirements.

* minimum grade required

FALL SEMESTER						SPRING SEMESTER					
PREFIX	COURSE	CREDIT	AREA	GR*	SEM/GR	PREFIX	COURSE	CREDIT	AREA	GR*	SEM/GR
YEAR 1-	ENG 101	Composition I	3	Gen Ed		ECO 210/211	Macro/Micro Economics	3	Gen Ed		
	ECO 210/211	Macro/Micro Economics	3	Gen Ed			Career/Technical	3	Tech		
	MAT 104	College Algebra	3	Gen Ed			Career/Technical	3	Tech		
		Humanities/Fine Arts	3	Gen Ed			Career/Technical	3	Tech		
	SPE 1113	Communication Studies	3	Gen Ed			Career/Technical	3	Tech		
		15						15			
YEAR 2-		Career /Technical	3	Tech			Career/Technical	3	Tech		
		Career/Technical	3	Tech							
		Career/Technical	3	Tech			Career/Technical	3	Tech		
		Career/Technical	3	Tech			Career/Technical	4	Tech		
		Career/Technical	3	Tech			Career/Technical	4	Tech		
		15						14			
YEAR 3-Junior	ENG 102	Composition II	3	Gen Ed		CIS 311	Applications Development	3	Major	C	
		Lab Science ²	3	Gen Ed		CIS 331	Systems Analysis & Design	3	Major	C	
		Humanities/Fine Art	3	Gen Ed		CIS 335	Decision Support Systems	3	Major	C	
	ACC 220	Financial Accounting I	3	Bus Core	C		Humanities/Fine Arts	3	Gen Ed		
	CIS 212	Surv Mod Comp Prog Lang	3	Major	C		Lab Science ²	3	Gen Ed		
FYS 100/300 ¹	First Year Seminar	1	Univ Req								
		16						15			
YEAR 4-Senior	CIS 455	Database Projects	3	Major	C	CIS 491	MIS Seminar	3	Major	C	
	CIS 361	Data Comm & Networking	3	Major	C	CIS 475	E-Commerce App	3	Major	C	
	CIS 345	IT Hardware & Software	3	Major	C	CIS 375	Information Security	3	Major	C	
	CIS 351	Project Management	3	Bus Core	C	MGT 300	Management Principles	3	Bus Core	C	
	FIN 300	Business Finance	3	Bus Core	C	MKT 300	Marketing Principles	3	Bus Core	C	
		15					15				

¹All incoming students required to enroll in FYS 100 (freshmen) or FYS 300 (transfers).

²Recommended Lab Sciences: BIO 110 Biology & Human Concerns, CHE 110 Chemical World, PHY 105 Astronomy, PHY 110 Physical World, GIS 202 Intro to Geospatial Sci & Tech.

Overall GPA on Business Core courses collectively must be C (2.0) or better.

RED – CC GENERAL EDUCATION HOURS GREEN -DSU GEN ED COURSES

Approved Networking Electives:

- [IST 1214 - Client Installation and Configuration](#) **4 SH**
- [IST 1244 - Network Administration Using Microsoft® Windows Server](#) **4 SH**
- [IST 1254 - Network Administration Using Linux](#) **4 SH**
- [IST 2254 - Advanced Network Administration Using Microsoft® Windows Server](#) **4 SH**
- [IST 2264 - Advanced Network Administration Using Linux](#) **4 SH**
- [IST 2524 - Linux Operating Systems Fundamentals](#) **4 SH**

***Approved Technical Electives:

- [IST 1173 - Principles of Database Management](#) **3 SH**
- [IST 1264 - Microsoft® Office Applications](#) **4 SH**
- [IST 1273 - Career Development](#) **3 SH**
- [IST 1314 - Visual BASIC Programming Language](#) **4 SH**
- [IST 1324 - RPG Programming Language](#) **4 SH**
- [IST 1334 - COBOL Programming Language](#) **4 SH**
- [IST 1414 - Client-Side Programming](#) **4 SH**
- [IST 1424 - Web Design Applications](#) **4 SH**
- [IST 1483 - Fundamentals of Virtualization](#) **3 SH**
- [IST 1514 - SQL Programming](#) **4 SH**
- [IST 1524 - SQL Programming II](#) **4 SH**
- [IST 1534 - Database Architecture and Administration](#) **4 SH**
- [IST 1714 - Java Programming Language](#) **4 SH**
- [IST 1724 - Programming in Python](#) **4 SH**
- [IST 1744 - SAS Programming I](#) **4 SH**
- [IST 1764 - Programming in Python II](#) **4 SH**
- [IST 1811 - IST Seminar I](#) **1 SH**
- [IST 1821 - IST Seminar II](#) **1 SH**
- [IST 2111 - IST Seminar III](#) **1 SH**
- [IST 2121 - IST Seminars IV](#) **1 SH**

- [IST 2314 - Systems Analysis and Design](#) **4 SH**
- [IST 2324 - Script Programming Language](#) **4 SH**
- [IST 2334 - Advanced Visual BASIC Programming Language](#) **4 SH**
- [IST 2344 - Database Programming and Design](#) **4 SH**
- [IST 2354 - Advanced RPG Programming Language](#) **4 SH**
- [IST 2364 - Advanced COBOL Programming Language](#) **4 SH**
- [IST 2374 - C++ Programming Language](#) **4 SH**
- [IST 2384 - Advanced C++ Programming Language](#) **4 SH**
- [IST 2424 - XML Programming](#) **4 SH**
- [IST 2434 - Server-Side Programming I](#) **4 SH**
- [IST 2444 - Server-Side Programming II](#) **4 SH**
- [IST 2454 - Mobile Application Development](#) **4 SH**
- [IST 2464 - PowerShell Programming](#) **4 SH**
- [IST 2514 - Advanced Database Architecture and Administration](#) **4 SH**
- [IST 2534 - IT Project Management](#) **4 SH**
- [IST 2584 - C# Programming Language](#) **4 SH**
- [IST 2594 - Advanced C# Programming Language](#) **4 SH**
- [IST 2724 - Advanced Java Programming](#) **4 SH**
- [IST 2814 - Full-Stack Web Development](#) **4 SH**
- [IST 2824 - Full-Stack Web Application](#) **4 SH**
- [IST 2913 - Supervised Work Experience in Information Systems Technology](#) **3 SH**
- [IST 2923 - Special Problem in Information Systems Technology](#) **3 SH**
- [IST 2955 - Capstone Coding Project](#) **4 SH**