

COLLEGE OF BUSINESS
Information Systems – 27-31 credits
2023-2024

Required Courses – 18 credits	Semester	Prerequisite course(s)
Choose one of the following:		
INFO SYS 201 Intro to Business App Develop	Fall	MATH 104, 106, 171, 204 or 206
COMP SCI 221 OO Design & Programming I	Fall/Spring	(MATH 104 or 108 or 206 w/C) or (CS 142) or placement to MATH 171
Required Courses		
INFO SYS 314 System Analysis & Design	Fall	c/INFO SYS 311 or CS 271
INFO SYS 315 Database Systems in Business	Fall/Spring	(INFO SYS 311) or (MHR 381) or (CS 271 w/C)
INFO SYS 316 Networking & Data Communications	Spring	INFO SYS 311 w/C or CS 271 w/C
INFO SYS 318 Agile App Development in C# *	Spring	INFO SYS 201 w/C or CS 221 w/C (2.2 GPA)
INFO SYS 417 IS Strategy and Management	Spring	INFO SYS 314, INFO SYS 315, INFO SYS 318 and Admit to COB, Senior Standing, Last semester of enrollment, complete or concurrent with BUS 340 or BUS 442 and have submitted a graduation application

PLUS: Choose one of the following emphases to complete major (9-15 credits)

Business Analysis Emphasis			9 credits
COMM 213/214 Interpersonal Communication	Fall/Spring		
INFO SYS 414 Business Analysis	Spring		INFO SYS 311
Plus 3 credits from:			
COMM 318 Intercultural Communication (ES)			(COMM 104 and c/COMM 213/214) or (instructor consent)
COMM 416 Managerial Communication			(COMM 104 and COMM 280) or (c/ COMM 368) or (instructor consent)
INFO SYS 481 Strategic IS Project Management	Fall		Complete 4 core course
MHR/EGRT 360 Engineering Project Management	Fall/Spring		
APC 380 Project Management Techniques	Spring		(APC 370) or (approval from instructor)

Computer Science Emphasis			10-12 credits
COMP SCI 262 Object Oriented Design & Program II			MATH 108 w/C or higher math placement & COMP SCI 221 w/C
Plus 6 credits from:			
COMP SCI 251 Com Architect & Assembly Lang			COMP SCI 221 w/C
COMP SCI 271 Data Structures			COMP SCI 262 w/C or CS majors c/COMP SCI 251
COMP SCI 341 Software Engineering I			COMP SCI 271 or COMP SCI 262 w/C and junior standing
COMP SCI 346 Web Software Development			COMP SCI 262 w/C
COMP SCI 371 Computer Graphics			COMP SCI 262 w/C and (MATH 171 or MATH 206 w/C)

Cybersecurity Emphasis			9 credits
INFO SYS 411 Enterprise Security Management	Spring		INFO SYS 311
INFO SYS 412 Securing the Network	Fall		INFO SYS 311 and INFO SYS 316
INFO SYS 413 IS Risk Management	Spring		INFO SYS 311 w/C

Data Modeling and Visualization Emphasis			9 credits
INFO SYS 301 Python for Data Analytics *	Fall		
INFO SYS 302 Data Visualization *	Spring		(INFO SYS 201 or 301 w/C) and (MATH 109, 189, 201, 301 or ECON 210 or MHR 381 w/C)
INFO SYS 303 Data Modeling with Python *	Spring		(INFO SYS 201 or 301 w/C) and (INFO SYS 315 w/C)

Information Systems major with no emphasis; take 3 of these courses			9 credits
Choose at least nine credits of 300/400 level Information Systems courses not previously taken.			

*These courses can be taken with 30 credits earned

Networking Technologies Emphasis		15 credits
<i>Note: this emphasis is offered in partnership with Fox Valley Technical College (FVTC) and will require courses taken at FVTC.</i>		
Required courses from FVTC	UW Oshkosh Course Equivalent	
10-150-116 Network Infrastructure I	INFO SYS 230 Network Hardware Technology	
10-150-122 Network Infrastructure II	INFO SYS 231 Advanced Network Hardware Technology	
10-150-150 Virtualization Technologies	INFO SYS 232 Virtualization Technologies	
Plus 6 credits from:		
At least six credits of 300/400 level Information Systems courses previously not taken, at least three of which must be 400 level.		

Enterprise Resource Planning (ERP) Emphasis (NOT CURRENTLY OFFERED)			9 credits
INFO SYS 445	Intro to ERP		INFO SYS 311
INFO SYS 446	ERP Config & Implementation		INFO SYS 445
Plus 3 credits from:			
ACCT 305	Accounting Information Systems		ACCT 301 and INFO SYS 311
INFO SYS 481	Strategic IS Project Management		Complete 4 core course
MHR/EGRT 360	Engineering Project Management		

Web & Mobile Development Emphasis (NOT CURRENTLY OFFERED)			9 credits
INFO SYS 432	Agile Web Design & Development		(INFO SYS 315 or CS 361) and (INFO SYS 318 or CS 221)
INFO SYS 433	Mobile Application Development		(INFO SYS 315 or CS 361) and (INFO SYS 318 or CS 262)
Plus 3 credits from:			
CS 247	Introduction to Usability		(CS 142 w/C or CS 221 w/C or INFO SYS 318 w/C)
INFO SYS 350	E-Commerce Technology Mgmt		(INFO SYS 311) and (CS 125 or INFO SYS 201)
INFO SYS 481	Strategic IS Project Management		Complete 4 core course

- NOTE:
- Emphasis requirements appear on Advisement Report when you declare a specific emphasis within the IS major.
 - Most INFO SYS courses are ONLY available in fall OR spring and can be prerequisites to other courses in the IS major.
 - Students cannot earn both Computer Science & Web Presence emphasis.
 - **Residency Requirement:** INFO SYS 417 + nine 300/400 level INFORMATION SYSTEM credits must be taken at UWO.
 - **See your advisor for suggested course sequence.**

Sample Plan – Information Systems

Sophomore Year – Fall INFO SYS 201 Intro to Business App Development INFO SYS 311 Essentials of Information Systems	Sophomore Year – Spring INFO SYS 318 Agile App Development in C# *immediately following INFO SYS 201
Junior Year – Fall INFO SYS 314 System Analysis & Design	Junior Year – Spring INFO SYS 316 Networking & Data Communications INFO SYS Emphasis Course
Senior Year – Fall INFO SYS 315 Database Systems in Business INFO SYS Emphasis Course	Senior Year – Spring INFO SYS 417 IS Strategy and Management INFO SYS Emphasis Course Note: if needed, could take INFO SYS 316