

BACHELOR OF SCIENCES IN INFORMATION SYSTEMS ENGINEERING

Curricular Sequence

Course Code	Course Name	Credits			
	Year I				
	Semester I				
ESPA 3161	Spanish I	3			
INGL 3161	English I	3			
MATE 3161	Basic Math	3			
COMP 3181	Introduction to Programming	4			
FISI 3001	Basic Physics Co-Requisite Basic Physics I Lab.	3			
FISI 3002	Basic Physics Lab. Co-Requisite Basic Physics I	0			
	Semester II				
ESPA 3262	Spanish II Pre-requisite Spanish I ESPA 3161	3			
INGL 3262	English II Pre-requisite English I INGL 3161	3			
MATE 3171	Pre-Calculus I Pre-requisite Basic Math MATE 3161	3			
HUMA 3161	Humanities	3			
FISI 3201	Basic Physics II Pre-requisite Basic Physics I, Co-Requisite Basic	3			
	Physics II Lab.				
FISI 3202	Basic Physics II Lab. Pre-requisite Basic Physics I Lab., Co-	0			
	Requisite Basic Physics II				
Summer					
MATE 3072	Pre-Calculus II Pre-requisite Pre-Calculus I	3			
	Year II				
	Semester I				
COMP 3481	Circuits	3			
HUMA 3262	Humanities II Pre-requisite HUMA 3161 Humanities I	3			
COMP 3281	Object-Oriented Programming Pre-requisite Introduction to	4			
	programming				
MATE 3371	Discrete Math Pre-requisite: Pre-Calculus II	3			
CISO 3161	Social Sciences	3			

CISO 3262 Social Sciences II Pre-requisite Social Sciences I 3 COMP 3482 Circuits II Pre-requisite: Circuits 3 COMP 3581 Introduction to Computer Networks Pre-requisite: Circuits II 3 TECH 3181 History of Technology 2 ESPA 3511 Business Communication in Spanish Pre-requisite: Spanish II 3 Summer COMP 3381 Advanced Programming Pre-requisite Object-Oriented Programming Pre-requisite Object-Oriented Programming Pre-requisite Semester I COMP 3582 Computer Architecture and Operating Systems Pre-requisites: Circuits, Circuits II, Introduction to Programming COMP 3782 Computer Assembly and Repair Pre-requisites: Circuits, Circuits II, Introduction to Programming COMP 3782 Network Protocols and Infrastructure Pre-requisite: Introduction to Computer Networks COMP 3782 Network Protocols and Infrastructure Pre-requisite: Object-Oriented programming, Introduction to Computer Networks COMP 3681 Systems Analysis and Design Pre-requisite: Object-Oriented programming, Introduction to Computer Networks BUSI 3121 Project Management 3 Semester II COMP 3981 Cloud Computing and Virtualization Pre-requisites: Computer Architecture and Operating Systems COMP 3984 Switches and Routers Pre-requisite: Introduction to Computer Architecture and Operating Systems COMP 3985 Structured Cabling Pe-requisite Circuits, Circuits II 3 COMP 3881 Cybersecurity Pre-requisite: Network Protocols and Infrastructure 3 COMP 3882 Data Privacy and Compliance Pre-requisite: Systems Analysis and Design Summer Elective 3 Summer Elective 3 Year IV Semester I COMP 3882 Systems Management and Administration Pre-requisite: Cloud 3 Computing	Semester II			
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Semester II COMP 3981		programming, Introduction to Computer Networks		
COMP 3981 Cloud Computing and Virtualization Pre-requisites: Computer Architecture and Operating Systems COMP 3984 Switches and Routers Pre-requisite: Introduction to Computer Networks COMP 3985 Structured Cabling Pe-requisite Circuits, Circuits II 3 COMP 3881 Cybersecurity Pre-requisite: Network Protocols and Infrastructure 3 COMP 3682 Data Privacy and Compliance Pre-requisite: Systems Analysis and Design Summer Elective 3 Year IV Semester I COMP 3882 Advanced Network Design Pre-Requisites: Cybersecurity, Network Protocols and Infrastructure Systems Management and Administration Pre-requisite: Cloud 3 Systems Management and Administration Pre-requisite: Cloud	BUSI 3121	Project Management	3	
Architecture and Operating Systems COMP 3984 Switches and Routers Pre-requisite: Introduction to Computer Networks COMP 3985 Structured Cabling Pe-requisite Circuits, Circuits II 3 COMP 3881 Cybersecurity Pre-requisite: Network Protocols and Infrastructure 3 COMP 3682 Data Privacy and Compliance Pre-requisite: Systems Analysis and Design Summer Elective 3 Year IV Semester I COMP 3882 Advanced Network Design Pre-Requisites: Cybersecurity, Network Protocols and Infrastructure COMP 3982 Systems Management and Administration Pre-requisite: Cloud 3		Semester II		
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Networks COMP 3985 Structured Cabling Pe-requisite Circuits, Circuits II 3 COMP 3881 Cybersecurity Pre-requisite: Network Protocols and Infrastructure 3 COMP 3682 Data Privacy and Compliance Pre-requisite: Systems Analysis and Design Summer Elective 3 Year IV Semester I COMP 3882 Advanced Network Design Pre-Requisites: Cybersecurity, Network Protocols and Infrastructure COMP 3982 Systems Management and Administration Pre-requisite: Cloud 3		Architecture and Operating Systems		
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COMP 3881 Cybersecurity Pre-requisite: Network Protocols and Infrastructure COMP 3682 Data Privacy and Compliance Pre-requisite: Systems Analysis and Design Summer Elective 3 Year IV Semester I COMP 3882 Advanced Network Design Pre-Requisites: Cybersecurity, Network Protocols and Infrastructure COMP 3982 Systems Management and Administration Pre-requisite: Cloud 3		Networks		
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Design Summer Summer 3	COMP 3881	Cybersecurity Pre-requisite: Network Protocols and Infrastructure	3	
Summer Elective 3 Year IV Semester I COMP 3882 Advanced Network Design Pre-Requisites: Cybersecurity, Network Protocols and Infrastructure COMP 3982 Systems Management and Administration Pre-requisite: Cloud 3	COMP 3682	Data Privacy and Compliance Pre-requisite: Systems Analysis and	3	
Elective 3 Year IV Semester I COMP 3882 Advanced Network Design Pre-Requisites: Cybersecurity, Network Protocols and Infrastructure COMP 3982 Systems Management and Administration Pre-requisite: Cloud 3		Design		
Year IV Semester I COMP 3882 Advanced Network Design Pre-Requisites: Cybersecurity, Network Protocols and Infrastructure COMP 3982 Systems Management and Administration Pre-requisite: Cloud 3		Summer		
Semester I COMP 3882 Advanced Network Design Pre-Requisites: Cybersecurity, Network Protocols and Infrastructure COMP 3982 Systems Management and Administration Pre-requisite: Cloud 3		Elective	3	
COMP 3882 Advanced Network Design Pre-Requisites: Cybersecurity, Network Protocols and Infrastructure COMP 3982 Systems Management and Administration Pre-requisite: Cloud 3		Year IV		
Protocols and Infrastructure COMP 3982 Systems Management and Administration Pre-requisite: Cloud 3		Semester I		
COMP 3982 Systems Management and Administration Pre-requisite: Cloud 3	COMP 3882	Advanced Network Design Pre-Requisites: Cybersecurity, Network	3	
		Protocols and Infrastructure		
Computing	COMP 3982	Systems Management and Administration Pre-requisite: Cloud	3	
		Computing		

ARIN 3321	Machine Learning	3
	Pre-requisites: Introduction to programming, Object-Oriented	
	Programming, System Analysis and Design	
	Elective	3

	Semester II	
PHIL 3120	Ethical and Legal Aspects in Information Systems	2
COMP 3151	Applied Project Pre-requisites: All Specialty courses	3
	Elective	3
Total		120