



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 Physics II Lab.	3
FISI 3202	Basic Physics II Lab. Pre-requisite Basic Physics I Lab., Co-Requisite Basic Physics II	0
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 programming	4
MATE 3371	Discrete Math Pre-requisite: Pre-Calculus II	3
CISO 3161	Social Sciences	3

Semester II		
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	4
Year III		
Semester I		
COMP 3582	Computer Architecture and Operating Systems Pre-requisites: Circuits, Circuits II, Introduction to Programming	3
COMP 3983	Computer Assembly and Repair Pre-requisites: Circuits, Circuits II, Introduction to Computer Networks	2
COMP 3782	Network Protocols and Infrastructure Pre-requisite: Introduction to Computer Networks	3
COMP 3681	Systems Analysis and Design Pre-requisite: Object-Oriented programming, Introduction to Computer Networks	3
BUSI 3121	Project Management	3
Semester II		
COMP 3981	Cloud Computing and Virtualization Pre-requisites: Computer Architecture and Operating Systems	3
COMP 3984	Switches and Routers Pre-requisite: Introduction to Computer Networks	3
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	3
Summer		
	Elective	3
Year IV		
Semester I		
COMP 3882	Advanced Network Design Pre-Requisites: Cybersecurity, Network Protocols and Infrastructure	3
COMP 3982	Systems Management and Administration Pre-requisite: Cloud Computing	3

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