UAEU كلية تقنية المعلومات College of Information Technology

جامعة الإمارات العربية المتحدة United Arab Emirates University

Bachelor of Science in Information Security Model Study Plan (2022-2023 Cohort onwards)

For Students Admitted to the University from the Fall Semester
Total Degree Credit hours: 130

Semester	Course Code	Course Title	CH	Course type
Year 1 — 1 (Fall)	ISPU1081	Introduction to Academic English for Information Technology I	3	Gen Ed Course (Cluster 1: Area 2: English Communication)
	MATH105	Calculus I	3	Gen Ed Course (Cluster 1: Area 1: Quantitative Reasoning)
	CSBP119	Algorithms and Problem Solving	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	PHYS105	General Physics I	3	Gen Ed Course (Cluster 1: Area 1: Natural Sciences)
	GETT113	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
	CSBP121	Programming Lab I	1	Specialization
			16	
Year 2 — 3 (Fall)	CENG210	Communication & Networks Fundamentals	4	Specialization
	CSBP315	Operating Systems Fundamentals	3	College Requirement
	BIOC100/CHEM 111	Basic Biology / /General Chemistry I Choose ONE	3	College Requirement
	CSBP319	Data Structures	3	College Requirement
	Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)
			16	
Year 3 — 5 (Fall)	SISC311	Network Security I	3	Specialization
	ISEC312	Cryptography	3	Specialization
	CSBP320	Data Mining	3	Specialization
	Elective	Student choice	3	Major Elective
	SUSU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
			15	
Year 4 — 7 (Fall)	SISC411	Privacy and Anonymity	3	Specialization
	ISEC421	Risk Analysis and Management	3	Specialization
	Elective	Student choice	3	Major Elective
	ISEC321	Network Security II	3	Specialization
	TBIP480	Senior Graduation Project I	3	College Requirement
	SISC414	Network Security Lab	1	Specialization
			16	
Years 5 — 9 (Fall)	ITBP495	Internship	12	Internship

Semester	Course Code	Course Title	CH	Course type
Year 1 — 2 (Spring)	CENG202	Discrete Mathematics	3	College Requirement
	MATH110	Calculus II	3	College Requirement
	CSBP219	Object Oriented Programming	3	College Requirement
	CENG205	Digital Design & Computer Organization	3	College Requirement
	CSBP221	Programming Lab II	1	Specialization
	HIS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
			16	
Year 2 — 4 (Spring)	CSBP301	Security Principles & Practice	3	Specialization
	CSBP340	Database Systems	3	Specialization
	TBIP270	Professional Responsibility in Information Technology	3	College Requirement
	ISLM100/ISLM101	Islamic Culture/Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
	STAT210	Probability and Statistics	3	College Requirement
			15	
Year 3 — 6 (Spring)	ISEC322	Design and Analysis of Security Protocols	3	Specialization
	ISEC323	Secure Software Design and Engineering	3	Specialization
	ISEC324	Cryptography Lab	1	Specialization
	TBIP418	Entrepreneurship in Information Technology	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
	Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
			13	
Year 4 — 8 (Spring)	ISEC412	Digital Forensics	3	Specialization
	ISEC422	Security Policy, Laws, and Governance	3	Specialization
	TBIP481	Senior Graduation Project II	3	College Requirement
	ISEC413	Security Architecture and Mechanisms	3	Specialization
	ISEC423	Systems Security Lab	1	Specialization
			13	

Bachelor of Science in Information Security Model Study Plan (2022-2023 Cohort onwards)

For Students Admitted to the University from the Spring Semester
Total Degree Credit hours: 130

Semester	Course Code	Course Title	CH	Course type
Year 1 — 1 (Spring)	ISPU1081	##201	###	Gen Ed Course (Cluster 1: Area 2: English Communication)
	MATH105	##201	###	Gen Ed Course (Cluster 1: Area 1: Quantitative Reasoning)
	CSBP119	##201	###	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	PHYS105	##201	###	Gen Ed Course (Cluster 1: Area 1: Natural Sciences)
	GETT113	##201	###	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
	CSBP121	##201	###	Specialization
Year 2 — 3 (Spring)	CENG210	##201	###	Specialization
	CSBP315	##201	###	College Requirement
	BIOC100/CHEM 111	##201	###	College Requirement
	Elective	##201	###	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)
	CSBP319	##201	###	College Requirement
Year 3 — 5 (Spring)	SISC311	##201	###	Specialization
	ISEC312	##201	###	Specialization
	CSBP320	##201	###	Specialization
	Elective	##201	###	Major Elective
	SUSU121	##201	###	Gen Ed Course (Cluster 3: Area 2: Sustainability)
Year 4 — 7 (Spring)	SISC411	##201	###	Specialization
	ISEC421	##201	###	Specialization
	Elective	##201	###	Major Elective
	ISEC321	##201	###	Specialization
	TBIP480	##201	###	College Requirement
	SISC414	##201	###	Specialization
Year 5 — 9 (Spring)	ITBP495	##201	###	Internship

Semester	Course Code	Course Title	CH	Course type
Year 1 — 2 (Fall)	CENG202	##201	###	College Requirement
	MATH110	##201	###	College Requirement
	CSBP219	##201	###	College Requirement
	CENG205	##201	###	College Requirement
	CSBP221	##201	###	Specialization
	HIS105	##201	###	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
Year 2 — 4 (Fall)	TBIP301	##201	###	Specialization
	CSBP340	##201	###	College Requirement
	TBIP270	##201	###	College Requirement
	ISLM100/ISLM101	Islamic Culture/Biography of the Prophet "Sira"	###	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
	STAT210	##201	###	College Requirement
Year 3 — 6 (Fall)	ISEC322	##201	###	Specialization
	ISEC323	##201	###	Specialization
	ISEC324	##201	###	Specialization
	TBIP418	##201	###	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
	Elective	##201	###	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
Year 4 — 8 (Fall)	ISEC412	##201	###	Specialization
	ISEC422	##201	###	Specialization
	TBIP481	##201	###	College Requirement
	ISEC413	##201	###	Specialization
	ISEC423	##201	###	Specialization

Bachelor of Science in Information Security Model Study Plan (2025-2026 Cohort onwards)

For Students Admitted to the University from the Fall Semester
Total Degree Credit hours: 120

Semester	Course Code	Course Title	CH	Course type
Year 1 — 1 (Fall)	GEAS121	Academic English for Humanities and STEM	3	Gen. Ed. Theme 2: Academic Language Proficiency
	MATH105	Calculus I	3	College Requirement
	CSBP119	Algorithms and Problem Solving	3	College Requirement
	PHYS105	General Physics I	3	College Requirement
	GETT113	Artificial Intelligence Fundamentals and Applications	3	Gen. Ed. Theme 3: Innovation
	CSBP121	Programming Lab I	1	Specialization
			16	
Year 2 — 3 (Fall)	CENG210	Communication & Networks Fundamentals	4	Specialization
	CSBP315	Operating Systems Fundamentals	3	College Requirement
	BIOC100/CHEM 111	Basic Biology / /General Chemistry I Choose ONE	3	College Requirement
	CSBP319	Data Structures	3	College Requirement
	Elective	Student choice	3	Gen. Ed. Theme 6 or 7 or 8 or 9 or 10 or 11
			16	
Year 3 — 5 (Fall)	SISC311	Network Security I	3	Specialization
	ISEC312	Cryptography	3	Specialization
	CSBP320	Data Mining	3	Specialization
	Elective	Student choice	3	Major Elective
			15	
Year 4 — 7 (Fall)	SISC411	Privacy and Anonymity	3	Specialization
	ISEC421	Risk Analysis and Management	3	Specialization
	ISEC321	Network Security II	3	Specialization
	TBIP480	Senior Graduation Project I	3	College Requirement
	SISC414	Network Security Lab	1	Specialization
	Elective	Student choice	3	Major Elective
			16	
Year 5 — 9 (Fall)	ITBP496	Internship	6	Internship

Semester	Course Code	Course Title	CH	Course type
Year 1 — 2 (Spring)	CENG202	Discrete Mathematics	3	College Requirement
	MATH110	Calculus II	3	College Requirement
	CSBP219	Object Oriented Programming	3	College Requirement
	CENG205	Digital Design & Computer Organization	3	College Requirement
	CSBP221	Programming Lab II	1	Specialization
	GERM110	Contemporary Emirati Studies	3	Gen. Ed. Theme 1: UAE National Identity
			16	
Year 2 — 4 (Spring)	TBIP301	Security Principles & Practice	3	Specialization
	CSBP340	Database Systems	3	Specialization
	TBIP270	Professional Responsibility in Information Technology	2	College Requirement
	SUSU121	Sustainability	3	Gen. Ed. Theme 5: Sustainability
	STAT210	Probability and Statistics	3	College Requirement
			14	
Year 3 — 6 (Spring)	ISEC322	Design and Analysis of Security Protocols	3	Specialization
	ISEC323	Secure Software Design and Engineering	3	Specialization
	ISEC324	Cryptography Lab	1	Specialization
	TBIP218	Entrepreneurship and New Venture Creation in IT	3	Gen. Ed. Theme 4: Entrepreneurship
	Elective	Student choice	3	Gen. Ed. Theme 6 or 7 or 8 or 9 or 10 or 11
			13	
Year 4 — 8 (Spring)	ISEC412	Digital Forensics	3	Specialization
	ISEC422	Security Policy, Laws, and Governance	3	Specialization
	TBIP481	Senior Graduation Project II	3	College Requirement
	ISEC413	Security Architecture and Mechanisms	3	Specialization
	ISEC423	Systems Security Lab	1	Specialization
			13	

Bachelor of Science in Cybersecurity Model Study Plan (2026-2027 Cohort onwards)

For Students Admitted to the University from the Fall Semester
Total Degree Credit hours: 120

Semester	Course Code	Course Title	CH	Course type
Year 1 — 1 (Fall)	GEAS121	Academic English for Humanities and STEM	3	Gen. Ed. Theme 2: Academic Language Proficiency
	MATH105	Calculus I	3	College Requirement
	CSBP119	Algorithms and Problem Solving	3	College Requirement
	CENG211	Computer Architecture	3	Specialization
	GETT113	Artificial Intelligence Fundamentals and Applications	3	Gen. Ed. Theme 3: Innovation
			15	
Year 2 — 3 (Fall)	CENG210	Communication & Networks Fundamentals	4	Specialization
	CSBP315	Operating Systems Fundamentals	3	College Requirement
	BIOC100/CHEM 111	Basic Biology / /General Chemistry I Choose ONE	3	College Requirement
	CSBP319	Data Structures	3	College Requirement
	Elective	Student choice	3	Gen. Ed. Theme 6 or 7 or 8 or 9 or 10 or 11
			16	
Year 3 — 5 (Fall)	SISC313	AI for Cybersecurity	3	Specialization
	ISEC312	Cryptography	3	Specialization
	CSBP320	Data Mining	3	Specialization
	Elective	Student choice	3	Major Elective
			15	
Year 4 — 7 (Fall)	SISC411	Privacy and Anonymity	3	Specialization
	ISEC421	Cyber Risk Modelling	3	Specialization
	ISEC321	Network Systems Security	3	Specialization
	TBIP480	Senior Graduation Project I	3	College Requirement
	SISC414	Network Security Lab	1	Specialization
	Elective	Student choice	3	Major Elective
			16	
Year 5 — 9 (Fall)	ITBP496	Internship	6	Internship

Semester	Course Code	Course Title	CH	Course type
Year 1 — 2 (Spring)	CENG202	Discrete Mathematics	3	College Requirement
	MATH140	Linear Algebra I	3	College Requirement
	CSBP219	Object Oriented Programming	3	College Requirement
	CENG205	Digital Design & Computer Organization	3	College Requirement
	GERM110	Contemporary Emirati Studies	3	Gen. Ed. Theme 1: UAE National Identity
			15	
Year 2 — 4 (Spring)	TBIP301	Security Principles & Practice	3	Specialization
	CSBP340	Database Systems	3	Specialization
	TBIP270	Professional Responsibility in Information Technology	2	College Requirement
	SUSU121	Sustainability	3	Gen. Ed. Theme 5: Sustainability
	STAT210	Probability and Statistics	3	College Requirement
			14	
Year 3 — 6 (Spring)	ISEC322	Cybersecurity Protocols	3	Specialization
	ISEC323	Software and Applications	3	Specialization
	ISEC324	Cryptography Lab	1	Specialization
	TBIP218	Entrepreneurship and New Venture Creation in IT	3	Gen. Ed. Theme 4: Entrepreneurship
	Elective	Student choice	3	Gen. Ed. Theme 6 or 7 or 8 or 9 or 10 or 11
			13	
Year 4 — 8 (Spring)	ISEC412	Digital Forensics and Incident Response	3	Specialization
	ISEC422	Cybersecurity Policies and Governance	3	Specialization
	TBIP481	Senior Graduation Project II	3	College Requirement
	ISEC413	Cyber Physical Systems Security	3	Specialization
	ISEC415	Ethical Hacking Lab	1	Specialization
	ISEC415	Digital Forensics Lab	1	Specialization
			14	