

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 | 2 | Course type | Semester | Course Code | Course Title | a | Course type |
|-----|----------|-------------|---|----|---|---------------|-------------|---|----|--|
| | 1 | ESPU 10R1 | Introduction to Academic English for Information Technology I | | | | | Discrete Mathematics | | College Requirement |
| | | | Calculusi | | Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning) | 2 | MATH110 | Calculus II | | College Requirement |
| 2 | | | | | Gen Ed Course (Cluster 1: Area 4: Critical Thinking) | - | | Object Oriented Programming | | College Requirement |
| | (Fall) | | General Physics I | | Gen Ed Course (Cluster 3: Area 1: Natural Sciences) | 10 | | Digital Design & Computer Organization | | College Requirement |
| (| | | | | Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution) | (Spring) | | Program ming Lab II | | Specialization |
| ٠, | | CSBP121 | Programming Lab I | 1 | Specialization | (-1- 0) | HSS105 | Emirates Studies | 2 | Gen Ed Course (Cluster 2: Area 3: Emirates Society) |
| | | | | 16 | | | | | ä | |
| | ٠ | CENG210 | Communication & Networks Fundamentals | 3 | Specialization | | (TEP301 | Security Principles & Practice | 2 | Specialization |
| 3 | | CSBP315 | Operating Systems Fundamentals | | College Requirement | 4 | | Database Systems | | Specialization |
| 3 | | | | | College Requirement | | | | | College Requirement |
| - (| (Fall) | CSBP319 | Data Structures | | College Requirement | (Spring) | | Islamic Culture/Biography of the Prophet "Sira" | | Gen Ed Course (Cluster 2: Area 4: Islamic Culture) |
| ١, | i aiij | Dective | Student chaice | 3 | Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts) | (Spring) | STAT210 | Probability and Statistics | 72 | College Requirement |
| | | | | 25 | | | | | 12 | |
| | | | | | Specialization | 6 (Spring) | | Design and Analysis of Security Protocols | | Specialization |
| | | | Cryptography | | Specialization | | | Secure Software Design and Engineering | | Specialization |
| 3 | (Eall) | | | | Specialization | | | | | Specialization |
| 1 | | | | | Major Elective | | | Entrepreneurship in Information Technology | | Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship) |
| ١, | | GESU121 | Sustainability | 3 | Gen Ed Course (Cluster 3: Area 2: Sustainability) | | Dective | Student choice | 72 | Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences) |
| | | | | 25 | | | | | z | |
| | 7 | | | | Specialization | 8 (Spring) | | | | Specialization |
| 4 | | | Risk Analysis and Management | | Specialization | | | Security Policy, Laws, and Governance | | Specialization |
| 3 | | | Student choice | | Major Elective | | | Senior Graduation Project II | | College Requirement |
| | (Fall) | | Network Security II | | Specialization | | | Security Architecture and Mechanisms | | Specialization |
| (| | | | | College Requirement | | ISEC423 | Systems Security Lab | : | Specialization |
| ٠, | | ISEC414 | Network Security Lab | 1 | Specialization | | | | | |
| | | | | 15 | | | | | a | |
| | | | | | | | | | | |
| • | | ITEP495 | Internable | | Internship | | | | | |
| 9 / | | | , manary | | - Carling | | | | | |
| (| Fall) | | | | | 4 | | | | |

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 | Semester | Course Code | | ğ | Course type |
|-----------|-------------|---|-----|---|-------------|-------------|---|----|--|
| | \$\$PU1001 | Introduction to Academic English for Information Technology I | | Gen Ed Course (Cluster 1: Area 2: English Communication) | 2 | CENG202 | | | College Requirement |
| 1 | | Calculusi | | Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning) | _ | MATH110 | Calculus II | 2 | College Requirement |
| - | CS97119 | Algorithms and Problem Solving | | Gen Ed Course (Cluster 1: Area 4: Critical Thinking) | (Fall) | CSBP219 | Object Oriented Programming | 2 | College Requirement |
| 10 | PHYS105 | General Physics I | | Gen Ed Course (Cluster 3: Area 1: Natural Sciences) | (raii) | CENG205 | Digital Design & Computer Organization | 2 | College Requirement |
| (Spring) | GEIT112 | Fourth Industrial Revolution | | Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution) | | CSBP221 | | | Specialization |
| | CSBP121 | Programming Lab I | | Specialization | | HSS105 | | | Gen Ed Course (Cluster 2: Area 3: Emirates Society) |
| | | | H | | | | | ž | |
| - | CENG210 | Communication & Networks Fundamentals | | Specialization | 4 (Fall) | TEP301 | | | Specialization |
| 3 | | Operating Systems Fundamentals | | College Requirement | | CSBP340 | | | Specialization |
| | | Basic Biology I /General Chemistry I Choose ONE | | College Requirement | | TEP370 | Professional Responsibility in Information Technology | | College Requirement |
| | | Student choice | | Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts) | | | | | Gen Ed Course (Cluster 2: Area 4: Islamic Culture) |
| (Shiiild) | CSBP319 | Data Structures | 3 | College Requirement | | STAT210 | | | College Requirement |
| | | | 35 | | | | | 25 | |
| - | (SEC311 | Network Security I | 3 | Specialization | | SEC322 | Design and Analysis of Security Protocols | 2 | Specialization |
| 5 | SEC312 | Cryotography | 2 | Specialization | 6 | 56C323 | Secure Software Design and Engineering | 2 | Specialization |
| | CSBP320 | DataMining | 2 | Specialization | (Fall) | 560324 | Cryptography Lab | 1 | Specialization |
| | | Student choice | | Major Elective | | TEP418 | | | Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship) |
| (Shillis) | GESU121 | Sustainability | 3 | Gen Ed Course (Cluster 3: Area 2: Sustainability) | | Clective | Student choice | 2 | Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences) |
| | | | 15 | | | | | 23 | |
| | SEC411 | Privacy and Anonymity | 2 | Specialization | 8 (Fall) | 55C412 | Digital Forensics | 2 | Specialization |
| 7 | SEC421 | Risk Analysis and Management | 2 | Specialization | | SEC422 | Security Policy, Laws, and Governance | 2 | Specialization |
| / | Dective | Student choice | 2 | Major Elective | | TEP481 | Senior Graduation Project II | 2 | College Requirement |
| | 56C321 | Network Security II | 2 | Specialization | | 500413 | | | Specialization |
| (Spring) | (TEP480 | Senior Graduation Project I | 2 | College Requirement | | SEC423 | Systems Security Lab | 1 | Specialization |
| (-F0) | ISEC414 | Network Security Lab | 1 | Specialization | | | | П | |
| | | | 15 | | | | | 22 | |
| ^ | | | | | | | | | |
| 9 | | | | | | | | | |
| | ITBP495 | Internship | 12 | Internship | | | | | |
| (Spring) | | | | | | | | | |
| (Spring) | | | | | | | | | |

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. | | Semester | Course Code | Course Title | a | Course type |
|--------------|----------|--------------------|---|------------|---|---|-------------|---|----|---|
| | 1 | | Academic English for Humanities and STEM | | Gen. Ed. Theme 2: Academic Language Proficiency | | | Discrete Mathematics | | College Requirement |
| - | | MATH105 | Calculus! | 3 | College Requirement | 2 | MATH110 | Calculus II | 3 | College Requirement |
| ē | | | Algorithms and Problem Solving | | College Requirement | | | Object Oriented Programming | | College Requirement |
| e . | (Fall) | PHYSIOS | General Physics I | 3 | College Requirement | (0) | CENG205 | Digital Design & Computer Organization | 3 | College Requirement |
| 1 (| | GEIT113 | Artificial Intelligence Fundamentals and Applications | | Gen. Ed. Theme 3: Innovation | (Spring) | | Program ming Lab II | | Specialization |
| | | CSBP121 | Programming Lab I | 1 | Specialization | (-1-0) | GEEM110 | Contemporary Emirati Studies | 3 | Gen. Ed. Theme 1: UAE National Identity |
| | | | | 16 | | | | | 16 | |
| ~ | - | CENG210 | Communication & Networks Fundamentals | 2 | Specialization | 4 | TEP301 | Security Principles & Practice | 2 | Specialization |
| ē | 3 | CSBP315 | Operating Systems Fundamentals | 2 | College Requirement | | CSBP340 | Database Systems | 2 | Specialization |
| 9 | - | BIOC100/CHEM 111 | Basic Biology I /General Chemistry I Choose CNE | 2 | College Requirement | | TBP270 | Professional Responsibility in Information Technology | 2 | College Requirement |
| 1 | (Fall) | CSBP319 | Data Structures | 2 | College Requirement | (Caring) | | Sustainability | 2 | Gen. Ed. Theme 5: Sustainability |
| | (raii) | Dective | Student choice | 2 | Gen. Ed. Theme G or 7 or 8 or 9 or 10 or 11 | (Spring) | STAT210 | Probability and Statistics | 2 | College Requirement |
| | | | | 15 | | | | | 14 | |
| | 5 | | | | Specialization | 6 (Spring) | | | | Specialization |
| ~ | | SEC312 | Cryptography | 3 | Specialization | | SEC323 | Secure Software Design and Engineering | 3 | Specialization |
| ē | | CSBP320 | DataMining | | Specialization | | | Cryptography Lab | | Specialization |
| ~ / | (Fall) | Dective | Student choice | 3 | Major Elective | | (TEP218 | Entrepreneurship and New Venture Creation in IT | 3 | Gen. Ed. Theme-4: Entrepreneurship |
| - (| | | | | | | Dective | Student choice | 2 | Gen. Ed. Theme 6 or 7 or 8 or 9 or 10 or 11 |
| | | | | 122 | | | | | 2 | |
| | | SEC411 | Privacy and Anonymity | 2 | Specialization | | SEC412 | Digital Forensics | 2 | Specialization |
| 7 | | SEC421 | Risk Analysis and Management | 2 | Specialization | 8 | ISEC422 | Security Policy, Laws, and Governance | 2 | Specialization |
| - | | SEC321 | Network Security II | 2 | Specialization | | TEP481 | Senior Graduation Project II | 2 | College Requirement |
| e, | (Fall) | (TEP480 | Senior Graduation Project I | 2 | College Requirement | (0 1) | SEC413 | Security Architecture and Mechanisms | 2 | Specialization |
| 1 (| | SEC414 | Network Security Lab | | Specialization | (Spring) | SEC423 | Systems Security Lab | 1 | Specialization |
| • | | Dective | Student choice | | Major Elective | (-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-,-, | | | | |
| | | | | 15 | | | | | 2 | |
| 15 | 9 | ITEP495 Internship | Internation | | | | | | | |
| ş (| (Fall) | | 6 | Internship | | | | | | |