



Information Technology

| Y | Course Code | Course Title | Pre-requisites | Credit Hours | Course Code | Course Title | Pre-requisites | Credit Hours |
|---------------------------|-----------------------------|--|----------------|--------------|---------------------------|--|----------------|--------------|
| FIRST YEAR | First Level | | | | Second Level | | | |
| | CP 101 | Introduction to Computing | | 3 | ARAB 101 | Arabic I | | 3 |
| | CP 110 | Programming I | | 3 | CP 115 | Programming II | CP 110 | 3 |
| | ISLS 101 | Islamic Studies I | | 3 | CP 120 | Digital Logic Design | CP 101 | 3 |
| | MATH 101 | Calculus I | MATH 001 | 4 | MATH 102 | Calculus II | MATH 101 | 4 |
| | STAT 101 | General Statistics | | 3 | STAT 102 | Probability Theory | STAT 101 | 3 |
| | <i>Total Credit Hours</i> | | | | 16 | <i>Total Credit Hours</i> | | |
| SECOND YEAR | Third Level | | | | Fourth Level | | | |
| | CHEM 101 | General Chemistry I | | 4 | CP 225 | Operating Systems | CP 220 | 3 |
| | CP 210 | Data Structures I | CP 115 | 3 | CP 230 | Systems Analysis and Design | CP 210 | 3 |
| | CP 220 | Computer Organization and Architecture | CP 120 | 3 | CP 240 | Databases | CP 210 | 3 |
| | MATH 212 | Discrete Math | MATH 101 | 3 | ENG 201 | Technical Writing | | 3 |
| | STAT 250 | Applied Probability and Random Processes | STAT 102 | 3 | PHYS 101 | General Physics | | 4 |
| <i>Total Credit Hours</i> | | | | 16 | <i>Total Credit Hours</i> | | | |
| THIRD YEAR | Fifth Level | | | | Sixth Level | | | |
| | IT 310 | Advanced Programming | CP 210 | 3 | IT 335 | Project Management | CP 230 | 3 |
| | IT 325 | System Administration | CP 225 | 3 | IT 340 | Database Administration | CP 240 | 3 |
| | CS/IT 350 | Computer Networks | CP 225 | 3 | IT 355 | Networks Administration | CS/IT 350 | 3 |
| | IT 370 | Introduction to Cybersecurity | CP 225 | 3 | IT XXX | Concentration Course I | | 3 |
| | CS/IT 380 | Human-Computer Interaction | CP 230 | 3 | IT XXX | Concentration Course II | | 3 |
| | GEE XXX | General Education Elective | | 3 | GEE XXX | General Education Elective | | 3 |
| <i>Total Credit Hours</i> | | | | 18 | <i>Total Credit Hours</i> | | | |
| Summer | | | | | | | | |
| IT 390 | Summer Training (200 Hours) | Department Approval | 1 | | | | | |
| FOURTH YEAR | Seventh Level | | | | Eighth Level | | | |
| | CS/IT 401 | Professional Computing Issues | IT 390 | 3 | IT 491 | Needs Assessment and Technology Evaluation | IT 390 | 3 |
| | CS/IT 498 | Senior Project I | IT 390 | 1 | CS/IT 499 | Senior Project II | CS/IT 498 | 3 |
| | IT XXX | Concentration Course III | | 3 | IT XXX | Concentration Course V | | 3 |
| | IT XXX | Concentration Course IV | | 3 | IT XXX | Major Elective | | 3 |
| | IT XXX | Major Elective Course | | 3 | IT XXX | Major Elective | | 3 |
| | GEE XXX | General Education Elective | | 3 | <i>Total Credit Hours</i> | | | |
| <i>Total Credit Hours</i> | | | | 16 | <i>Total Credit Hours</i> | | | |
| | | | | 15 | | | | |



Bachelor of Science in

Information Technology

Concentration Courses

| Course Code | Course Title | Pre-requisites | Credit Hours |
|-------------|--------------------------------------|----------------|--------------|
| IT 330 | Software Engineering I | CP 230 | 3 |
| IT 450 | Mobile Applications | CS/IT 350 | 3 |
| IT 455 | Internet Applications | CS/IT 350 | 3 |
| IT 459 | Data Network Design and Evaluation | CS/IT 350 | 3 |
| IT 478 | Computer Forensics and Investigation | IT 370 | 3 |



Bachelor of Science in Information Technology

Cybersecurity

Concentration Courses

| Course Code | Course Title | Pre-requisites | Credit Hours |
|-------------|--|----------------|--------------|
| IT 375 | Information Security Management | IT 370 | 3 |
| IT 378 | Fundamentals of Network Security | CS/IT 350 | 3 |
| IT 471 | Cybersecurity Risk Management | IT 370 | 3 |
| IT 475 | Applied Cryptography and Data Security | IT 370 | 3 |
| IT 478 | Computer Forensics and Investigation | IT 370 | 3 |



Bachelor of Science in Information Technology

Networking

Concentration Courses

| Course Code | Course Title | Pre-requisites | Credit Hours |
|-------------|-----------------------------------|----------------|--------------|
| IT 356 | Advanced Computer Networks | CS/IT 350 | 3 |
| IT 358 | Wireless and Mobile Communication | CS/IT 350 | 3 |
| IT 451 | Cloud Computing | CS/IT 350 | 3 |
| IT 456 | Internet of Things | CS/IT 350 | 3 |
| IT 458 | Software Defined Networks | CS/IT 350 | 3 |

Major Electives

| Course Code | Course Title | Credit Hours |
|-------------|---|--------------|
| IT 457 | Evolving IT Technologies | 3 |
| IT 460 | Principles of Artificial Intelligence | 3 |
| IT 461 | Fundamentals of Data Science | 3 |
| IT 462 | Business Intelligence | 3 |
| IT 472 | Penetration Testing and Ethical Hacking | 3 |
| IT 485 | User-Centered System Design | 3 |
| IT 492 | E-Business Technology | 3 |
| IT 493 | Web Development and Security | 3 |
| IT 495 | Special/Selected Topics | 3 |

General Education Electives (Free Electives)

| Course Code | Course Title | Credit Hours |
|-------------|---|--------------|
| PSY 101 | Introduction to Psychology | 3 |
| EI 101 | Emotional Intelligence | 3 |
| ENG 204 | Critical Thinking | 3 |
| ETH 101 | Social Ethics | 3 |
| MKT 333 | Public Relations | 3 |
| C-MKT 501 | Mobile Marketing Technology | 3 |
| NPS 101 | Negotiation and Problem Solving | 3 |
| SPD 101 | Soft Skills and Personality Development | 3 |
| SCO 101 | Introduction to Sociology | 3 |
| BUS 223 | Research Methodology | 3 |
| BUS 425 | Entrepreneurship | 3 |
| IE 201 | Introduction to Engineering Design I | 3 |
| LAW -101 | Principles of Law | 3 |
| TEM -121 | Introduction to Tourism and Hospitality | 3 |
| ID 274 | Design Theories | 3 |
| ID 275 | Art and Architecture History I | 3 |
| GD 286 | Photography I | 3 |
| GD 088 | Islamic Art | 3 |
| GFID 106 | Digital Communications | 3 |
| GED 100 | Introduction of Design Software | 3 |

Preparation Course

| Course Code | Course Title | Credit Hours |
|-------------|--------------|--------------|
| MATH 001 | Precalculus | NP |

| | |
|---|------------|
| Total Credit Hours: | 132 |
| General Requirements: | 37 |
| Major Requirements: | 35 |
| Major Electives Requirements: | 9 |
| General Education Electives Requirements: | 9 |
| General Computing Requirements: | 27 |
| Concentration Requirements: | 15 |