



جامعة دار الحكمة  
DAR AL-HEKMA UNIVERSITY

| Year One                  |                                    |              |                           |                                      |              |
|---------------------------|------------------------------------|--------------|---------------------------|--------------------------------------|--------------|
| Semester – Fall           |                                    |              | Semester – Spring         |                                      |              |
| Course Code               | Course Title                       | Credit Hours | Course Code               | Course Title                         | Credit Hours |
| <b>STAT 2301</b>          | <b>Statistics</b>                  | <b>3</b>     | <b>COMM 1302</b>          | <b>Communication Skills II</b>       | <b>3</b>     |
| <b>COMM 1301</b>          | <b>Communication Skills I</b>      | <b>3</b>     | <b>BBBF 1101</b>          | <b>Basic Body and Brain Fitness</b>  | <b>1</b>     |
| <b>ARAB XXXX</b>          | <b>Arabic Studies</b>              | <b>3</b>     | <b>ISLS XXXX</b>          | <b>Islamic Studies</b>               | <b>3</b>     |
| <b>MATH 1304</b>          | <b>Calculus I</b>                  | <b>0</b>     | <b>BSCS 1350</b>          | <b>Introduction to Programming</b>   | <b>3</b>     |
| <b>BSCS 1360</b>          | <b>Computer Ethics and Society</b> | <b>3</b>     | <b>BSCS 1321</b>          | <b>Digital Logic Concepts</b>        | <b>3</b>     |
|                           |                                    | <b>0</b>     | <b>BSCY 1310</b>          | <b>Fundamentals of Cybersecurity</b> | <b>3</b>     |
|                           |                                    | <b>0</b>     |                           |                                      | <b>0</b>     |
|                           |                                    | <b>0</b>     |                           |                                      | <b>0</b>     |
| <b>Total Credit Hours</b> |                                    | <b>15</b>    | <b>Total Credit Hours</b> |                                      | <b>16</b>    |



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| Year Two           |                                        |              |                    |                                   |              |
|--------------------|----------------------------------------|--------------|--------------------|-----------------------------------|--------------|
| Semester – Fall    |                                        |              | Semester – Spring  |                                   |              |
| Course Code        | Course Title                           | Credit Hours | Course Code        | Course Title                      | Credit Hours |
| BSCS 2330          | Discrete Structures                    | 3            | BSCS 2375          | Networking and Data Communication | 3            |
| BSCS 2320          | Computer Architecture and Organization | 3            | BSCS 2370          | Operating Systems                 | 3            |
| BSCS 2355          | Object Oriented Programming            | 3            | BSCS 2310          | Analysis of Algorithms            | 3            |
| BSCS 2351          | Fundamental Data Structures            | 3            | BSIS 2340          | IS Project Management             | 3            |
| BSCY 2311          | Basic Cryptography Concepts            | 3            | BSCY 2320          | Secure Software Development       | 3            |
|                    |                                        | 0            |                    |                                   | 0            |
|                    |                                        | 0            |                    |                                   | 0            |
|                    |                                        | 0            |                    |                                   | 0            |
| Total Credit Hours |                                        | 15           | Total Credit Hours |                                   | 15           |



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| Year Tree          |                                   |              |                    |                             |              |
|--------------------|-----------------------------------|--------------|--------------------|-----------------------------|--------------|
| Semester – Fall    |                                   |              | Semester – Spring  |                             |              |
| Course Code        | Course Title                      | Credit Hours | Course Code        | Course Title                | Credit Hours |
| XXXX XXXX          | Free Electives                    | 3            | XXXXXXXX           | Research Methods            | 3            |
| BSCS 3345          | Human Computer Interaction        | 3            | BSIS 3320          | Database Management Systems | 3            |
| BSCS 3380          | Artificial Intelligence           | 3            | BSCY 3393          | Internship                  | 3            |
| BSCS 3365          | Software Engineering              | 3            | BSCY 3350          | Managing Systems Security   | 3            |
| BSCY 3330          | System Components Security        | 3            | BSCY 3360          | Human Privacy and Security  | 3            |
| BSCY 3340          | Networks and Connections Security | 3            | BSCY XXXX          | Program Elective            | 3            |
|                    |                                   | 0            |                    |                             | 0            |
|                    |                                   | 0            |                    |                             | 0            |
| Total Credit Hours |                                   | 18           | Total Credit Hours |                             | 18           |



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| Year Four          |                                               |              |                    |                                       |              |
|--------------------|-----------------------------------------------|--------------|--------------------|---------------------------------------|--------------|
| Semester – Fall    |                                               |              | Semester – Spring  |                                       |              |
| Course Code        | Course Title                                  | Credit Hours | Course Code        | Course Title                          | Credit Hours |
| ENTR 3301          | Entrepreneurship and Design Thinking          | 3            | GELE 3301          | Leadership and Emotional Intelligence | 3            |
| ISLS XXXX          | Islamic Studies                               | 3            | ARAB XXXX          | Arabic Studies                        | 3            |
| BSCY 4312          | Information Storage Security                  | 3            | BSCY 4390          | Selected Topics                       | 3            |
| BSCY 4370          | Organizational Risk Management and Governance | 3            | BSCY 4380          | Societal Security and Cyber Law       | 3            |
| BSCY 4391          | Capstone Project                              | 3            | BSCY 4392          | Capstone Project II                   | 3            |
| BSCY XXXX          | Program Elective                              | 3            | BSCY XXXX          | Program Elective                      | 3            |
|                    |                                               | 0            |                    |                                       | 0            |
|                    |                                               | 0            |                    |                                       | 0            |
| Total Credit Hours |                                               | 18           | Total Credit Hours |                                       | 18           |



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### Program Electives

| Course Code | Course Title                           | Credit Hours |
|-------------|----------------------------------------|--------------|
| BSCY 3301   | IT Audit and Controls                  | 3            |
| BSCY 3390   | Research Methods in Cybersecurity      | 3            |
| BSCY 3302   | Emerging Technologies in Cybersecurity | 3            |
| BSCY 3303   | IT Essential                           | 3            |
| BSCY 4341   | Cybersecurity Operations               | 3            |
| BSCY 4342   | Network Defender                       | 3            |
| BSCY 3304   | Ethical Hacking Concepts               | 3            |
| BSCY 4305   | Web Applications Ethical Hacking       | 3            |
| BSCY 4306   | Network Ethical Hacking                | 3            |



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### Program Electives

| Course Code | Course Title                           | Credit Hours |
|-------------|----------------------------------------|--------------|
| BSCY 3307   | Computer Forensics Investigations      | 3            |
| BSCY 4308   | Network Forensics and Analysis         | 3            |
| BSCY 4309   | Mobile Forensics and Analysis          | 3            |
| BSCY 3355   | Fundamentals of Operational Technology | 3            |
| BSCY 4356   | Industrial Control Systems Security    | 3            |
| BSCY 4357   | Internet of Things Security            | 3            |
| BSCY 3325   | Fundamental of Threat Intelligence     | 3            |
| BSCY 4326   | Threat Collection and Analysis         | 3            |
| BSCY 4327   | Vulnerability Assessment Analysis      | 3            |