



Computer Science (CSCI)

First Year

Fall Semester

| Code | Title | Credits | Prerequisites | Corequisites |
|---------|---|---------|---------------|--------------|
| CULT200 | Introduction to Arab - Islamic Civilization | 3 | | |
| ENGL201 | Composition and Research Skills | 3 | ENGL151 | |
| CSCI200 | Introduction to Computers | 3 | ENGL051 | |
| MATH225 | Linear Algebra with Applications | 3 | MATH160 | |
| MATH210 | Calculus II | 3 | MATH160 | |
| CSCI205 | Computer Science Overview | 3 | ENGL101 | |
| Total | | 18 | | |

Spring Semester

| Code | Title | Credits | Prerequisites | Corequisites |
|----------|---------------------------------|---------|-------------------|--------------------|
| MATH260 | Discrete Mathematics | 3 | MATH225 | |
| CSCI250 | Introduction to Programming | 3 | CSCI205 - CSCI200 | ENGL101 - CSCI250L |
| ARAB200 | Arabic Language and Literature | 3 | | |
| CSCI454 | Advanced Robotics | 3 | CSCI445 | |
| ENGL251 | Communication Skills | 3 | ENGL201 | |
| CSCI250L | Introduction to Programming Lab | 1 | CSCI205 - CSCI200 | ENGL101 - CSCI250 |
| Total | | 16 | | |

Second Year

Fall Semester

| Code | Title | Credits | Prerequisites | Corequisites |
|----------|--|---------|--------------------|--------------|
| | Elective | 3 | | |
| CSCI300L | Intermediate Programming with Objects Lab | 1 | CSCI250 | CSCI300 |
| CSCI342 | Fundamentals of Networking Technologies | 3 | CSCI250 | |
| CSCI300 | Intermediate Programming with Objects | 3 | CSCI250L - CSCI250 | CSCI300L |
| MATH375 | Numerical Methods for Scientists & Engineers | 3 | ENGL051 - MATH225 | |
| CSCI335 | Database Systems | 3 | CSCI250 | CSCI335L |
| CSCI335L | Database Systems Lab | 1 | CSCI250 | CSCI335 |
| Total | | 17 | | |

Spring Semester

| Code | Title | Credits | Prerequisites | Corequisites |
|---------|-----------------------------|---------|-------------------|--------------|
| CSCI375 | Web Programming Client Side | 3 | CSCI300 | |
| CSCI385 | Digital Logic | 3 | CSCI250 | |
| CSCI392 | Computer Networks | 3 | CSCI342 | |
| CSCI350 | Data Structures | 3 | CSCI300 | |
| CSCI380 | Software Engineering | 3 | ENGL201 - CSCI335 | |
| CSCI370 | Visual Programming | 3 | CSCI335 - CSCI300 | |
| Total | | 18 | | |

Third Year

Fall Semester

| Code | Title | Credits | Prerequisites | Corequisites |
|---------|-----------------------------|---------|---------------|--------------|
| CSCI425 | Web Programming Server Side | 3 | CSCI375 | |

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|---------|----------------------------|----|-------------------|--|
| | Elective | 3 | | |
| CSCI445 | Robotics Design and Coding | 3 | CSCI300 - CSCI250 | |
| CSCI440 | Algorithms | 3 | CSCI350 | |
| CSCI410 | Mobile Application | 3 | CSCI370 - CSCI375 | |
| Total | | 15 | | |

Spring Semester

| Code | Title | Credits | Prerequisites | Corequisites |
|----------|--------------------------------|---------|-------------------|--------------|
| | Elective | 3 | | |
| | Elective | 3 | | |
| CSCI465L | Operating Systems Lab | 1 | CSCI392 | CSCI465 |
| CSCI465 | Operating Systems | 3 | CSCI392 | CSCI465L |
| CSCI490 | Information System Development | 3 | CSCI410 - CSCI380 | |
| CSCI475 | Artificial Intelligence | 3 | CSCI350 | |
| Total | | 16 | | |

Major Elective Courses

| Code | Title | Credits | Prerequisites | Corequisites |
|---------|---------------------------------------|---------|-----------------------------|--------------|
| BMIS400 | E-Business | 3 | | |
| CSCI427 | Application Development | 3 | CSCI335 - CSCI392 - CSCI370 | |
| CSCI456 | Advanced Programming | 3 | | |
| CSIT320 | Microcomputer Support | 3 | CSCI200 | |
| CSIT430 | Internetworking and Routing Protocols | 3 | CSCI392 | |
| CSIT435 | DBMS Administration | 3 | CSCI335 | |
| CSIT480 | Interconnecting Networks | 3 | CSIT430 | |
| CSIT485 | System and Network Administration | 3 | CSCI392 | |