



KING KHALID UNIVERSITY

COLLEGE OF COMPUTER SCIENCE

DEPARTMENT OF COMPUTER SCIENCE

B.Sc Computer Science Program Study Plan

| Code | Course Name | T | L | Cr | Code | Course Name | T | L | Cr |
|---|---|-----------|----------|-----------|-----------|-----------------------------------|-----------|----------|-----------|
| First Year | | | | | | | | | |
| 011CSM-3 | Introduction to Computer | 2 | 1 | 3 | 012CSM-3 | Computer Programming 1 | 2 | 1 | 3 |
| 011ENG-6 | Intensive English Program 1 | 6 | 0 | 6 | 012ENG-6 | Intensive English Program 2 | 6 | 0 | 6 |
| 001MATH-3 | Mathematics 1 | 3 | 0 | 3 | 012MATH-3 | Matrices Algebra | 3 | 0 | 3 |
| 111IC1-2 | The Entrance to the Islamic Culture | 2 | 0 | 2 | 112IC1-2 | Islamic Culture (2) | 2 | 0 | 2 |
| | | 13 | 1 | 14 | | | 13 | 1 | 14 |
| Total Credit Required in Preparatory Program: 28 | | | | | | | | | |
| Second Year | | | | | | | | | |
| 104PHYS-4 | Principles of Physics | 3 | 1 | 4 | 114IC1-2 | Islamic Culture (4) | 2 | 0 | 2 |
| 113MATH-3 | Differentiation & Integration | 3 | 0 | 3 | 114CSM-4 | Object-Oriented Programming (OOP) | 3 | 1 | 4 |
| 113IC1-2 | Islamic Culture (3) | 2 | 0 | 2 | 115CSM-3 | Algorithms & Data Structures 1 | 2 | 1 | 3 |
| 113CSM-4 | Computer Programming 2 | 3 | 1 | 4 | 121ISM-3 | Intro. to Information System | 2 | 1 | 3 |
| 201ARAB-2 | Arabic Language Skills | 2 | 0 | 2 | 131CSM-3 | Computational Geometry | 2 | 1 | 3 |
| | | | | | 202ARAB-2 | Arabic Editing | 2 | 0 | 2 |
| | | 13 | 2 | 15 | | | 13 | 4 | 17 |
| Third Year | | | | | | | | | |
| 216CSM-3 | Algorithms & Data Structures 2 | 2 | 1 | 3 | 223ISM-3 | Data Warehousing & Data Mining | 2 | 1 | 3 |
| 217CSM-3 | Statistical Programming | 2 | 1 | 3 | 236CSM-3 | Combinatorial Analysis of Comp. | 2 | 1 | 3 |
| 222ISM-4 | Databases Management Systems | 3 | 1 | 4 | 241CSM-4 | Digital Logic | 3 | 1 | 4 |
| 233CSM-3 | Computer Modelling & Simulation | 2 | 1 | 3 | 251CSM-3 | Operating System 1 | 2 | 1 | 3 |
| 234CSM-3 | Computer Vision | 2 | 1 | 3 | 278CSM-3 | Programming Languages | 2 | 1 | 3 |
| | | 11 | 5 | 16 | | | 11 | 5 | 16 |
| Fourth Year | | | | | | | | | |
| 337CSM-3 | Discrete Structures | 2 | 1 | 3 | 334CSM-3 | Computer Graphics | 2 | 1 | 3 |
| 343CSM-3 | Microprocessor & Assembly Language | 2 | 1 | 3 | 344CSM-3 | Computer Organization | 2 | 1 | 3 |
| 345CSM-3 | Theory of Compilers | 2 | 1 | 3 | 352CSM-3 | Operating System 2 | 2 | 1 | 3 |
| 364CSM-4 | Computer Networks 1 | 3 | 1 | 4 | 362ISM-3 | Internet Technology | 2 | 1 | 3 |
| 375CSM-3 | Introduction to Artificial Intelligence | 2 | 1 | 3 | 371CSM-3 | Software Engineering 1 | 2 | 1 | 3 |
| | | 11 | 5 | 16 | | | 10 | 5 | 15 |
| Fifth Year | | | | | | | | | |
| 435ISM-3 | Multimedia | 2 | 1 | 3 | 473ISM-2 | Computing Ethics & Society | 2 | 0 | 2 |
| 463CSM-3 | Computer Networks 2 | 2 | 1 | 3 | 474CSM-3 | Design & Analysis of Algorithms | 2 | 1 | 3 |
| 472CSM-3 | Software Projects Management | 2 | 1 | 3 | 476CSM-3 | Expert System & Knowledge Engg. | 2 | 1 | 3 |
| 473CSM-3 | Software Engineering 2 | 2 | 1 | 3 | 481CSM-1 | Seminar | 1 | 0 | 1 |
| 483CSM-2 | Project 1 | 2 | 0 | 2 | 482CSM-3 | Selected Topics | 2 | 1 | 3 |
| | | | | | 484CSM-3 | Project 2 | 3 | 0 | 3 |
| | | 10 | 4 | 14 | | | 12 | 3 | 15 |
| Total credits required in Degree Program: 152 | | | | | | | | | |