

Bachelor of Technology degree (BTech) in COMPUTER SYSTEMS

Fundamental Level	Credits
Universal courses	
CST1101/CS101 – Introduction to Programming (VB)	3
MST1101/MS101 – Introduction to Microcomputers	3
CST2406/CS406 – Systems Analysis & Design	3
Total	9
Choose one of two fundamental options	
Programming Option	
CST1202/CS202 -- COBOL 1	3
CST1205/CS205 -- Mainframe operating systems	2
CST2302/CS302 -- COBOL 2	3
CST2303/CS303 – Online Programming (CICS)	3
CST2304/CS304 – Database Programming (SQL)	3
CST2403/CS403 – Introductory C++ Programming	3
Total	17
OR	
Network Option	
MST1204/MS204 – Database Systems and Programming I (Access)	3
MST1205/MS205 – Microcomputer Systems	3
MST2304/MS304 – Database Systems and Programming II (Access)	3
MST2307/MS307 – Local Area Networks	4
MST2405/MS405 – Microcomputer Operating Systems	4
Total	17
Total Fundamental Courses	26

Specialization Level (Pre-req: Completion of any two CST36XX/CS6XX courses)	Credits
Universal courses	
CST4800/CS800 – Project Management	3
CST4801/CS801 – Special Topics in Information Technology	1
CST4900/CS900 – Internship OR	
CST4905/CS905 – Information System Project	3
Total	7
Choose three of the seven modules	
Program Design Module (Pre-req: CST2403/CS403 & MAT1375/MA375 or higher)	
CST3503/CS503 – Advanced C++ Programming	3
CST3603/CS603 – Object-Oriented Programming (Visual C++)	3
CST4703/CS703 – UNIX OR	3
CST4713/CS713 -- Application architecture using Java	3
Total	9
Database Module (Pre-req: (CST2304/CS304 or MST2304/MS304) & CST2406/CS406 & MAT1375/MA375 or higher)	
CST3504/CS504 – Design of Microcomputer Databases	3
CST3604/CS604 – Design of Distributed Databases	3
CST4704/CS704 – Data Warehousing OR	3
CST4714/CS714 -- Database Administration	3
Total	9
Object-Oriented Systems Analysis & Design Module (Pre-req: CST2406/CS406 & MAT1375/MA375 or higher)	
CST3506/CS506 – Object-Oriented Systems Analysis	3
CST3606/CS606 – Object-Oriented Systems Design	3
CST4706/CS706 – Design of Object-Oriented Distributed Systems	3
Total	9
Networking Module (Pre-req: MST2307/MS307 & MAT1375/MA375 or higher)	
CST3507/CS507 – Advanced Single-LAN Systems	3
CST3607/CS607 – Introduction to Local Area Network Connectivity	3
CST4707/CS707 – LAN-Internet Connections	3
Total	9
Client/Server Module (Pre-req: CST1101/CS101 & (CST2304/CS304 or MST2304/MS304) & MAT1375/MA375 or higher)	
CST3508/CS508 – Design of Graphic User Interfaces (VB)	3
CST3608/CS608 – Distributed Application Processing (VB)	3
CST4708/CS708 – Client/Server Technologies (VB)	3
Total	9
Web Programming Module (Pre-req: MST2307/MS307(Co-req) & MAT1375/MA375 or higher)	
CST3509/CS509 - Web Design	3
CST3609/CS609 - Internet Programming	3
CST4709/CS709 - Implementing Web Servers	3
Total	9
Information Security Module (Pre-req: MST2307/MS307 & MAT1375/MA375 or higher)	
CST3510/CS510 - Computer Security	3
CST3610/CS610 - Network Security Fundamentals	3
CST4710/CS710 - Advanced Security Technologies	3
Total	9

Liberal Arts and Sciences Core	Credits
ENG1101/EG101 - College Composition 1	3
ENG1121/EG121 - College Composition 2	3
ENG3773/EG533 - Advanced Technical Writing	3
MAT1375/MA375 - Mathematical Analysis	4
MAT1475/MA475 - Analytic Geometry and Calculus 1	4
SPE13xx/TS3xx - Speech Elective*	3
PSY1101/PS101 - Introduction to Psychology	3
PSY2404/PS404 - Organizational Behavior	3
Social Science Elective	3
Literature Elective	3
Literature, Aesthetics, or Philosophy Elective 1	3
Literature, Aesthetics, or Philosophy Elective 2	3
Science Elective A	4
Science Elective B	4
Total	46

Business and Technical Courses	Credits
ACC1101/AC101 - Introduction to Accounting	4
BUS2425/AC425 - Business Management	3
BUS3525/BU525 - Strategic Management	3
ETN1302/ET429 - Principles of Computer Maintenance	4
Total	14

Total Liberal Arts and Sciences	46
Total Business and Technical	14
Total Computer Courses	60
Total Credits for the Degree	120

* Speech course to be selected from SPE1330/TS330, SPE1335/TS335, or SPE1340/TS340

