

Program Code : 426002
Program Revision Code : 426002003
Name : B.S. IN COMPUTER SCIENCE
Title : Bachelor of Science in Computer Science

FIRST YEAR

First Semester

GE (AH)	1	3.0	
GE (MST)	1	3.0	
GE (SSP)	1	3.0	
P.E.		(2.0)	
NSTP		(3.0)	
Math 17	Algebra & Trigonometry	5.0	
CMSC 11	Introduction to Computer Science	3.0	Math 17 OR Math 11

		17.0	

Second Semester

GE (AH)	2	3.0	
GE (MST)	2	3.0	
GE (SSP)	2	3.0	
P.E.		(2.0)	
NSTP		(3.0)	
Math 53	Elementary Analysis I	5.0	Math 17
CMSC 21	Fundamentals of Programming	3.0	CMSC 11
CMSC 56	Discrete Mathematical Structures in Computer Science 1	3.0	CMSC 11, Math 17

		20.0	

SECOND YEAR

First Semester

GE (AH)	3	3.0	
GE (SSP)	3	3.0	
P.E.		(2.0)	
Math 54	Elementary Analysis II	5.0	Math 53
Physics 51	General Physics I	3.0	Math 17
Physics 51.1	General Physics I Laboratory	1.0	

CMSC 22	Fundamentals of Object-oriented Programming	3.0	CMSC 21
CMSC 57	Discrete Mathematical Structures in Computer Science 2	3.0	CMSC 56

21.0

Second Semester

GE (AH)	4	3.0	
GE (MST)	3	3.0	
P.E.		(2.0)	
Math 55	Elementary Analysis III	3.0	Math 54
Physics 52	General Physics II	3.0	Physics 51
Physics 52.1	General Physics II Laboratory	1.0	Physics 51.1
CMSC 123	Data Structures	3.0	CMSC 21, CMSC 57
CMSC 130	Logic Design & Digital Computer Circuits	3.0	CMSC 11

19.0

THIRD YEAR

First Semester

GE (AH)	5	3.0	
GE (SSP)	4	3.0	
Stat 105	Introduction to Statistical Analysis	3.0	Math 17
CMSC 124	Design & Implementation of Programming Languages	3.0	CMSC 123
CMSC 131	Introduction to Computer Organization & Machine Level Programming	3.0	CMSC 130, CMSC 21
CMSC 127	File Processing & Database Systems	3.0	CMSC 123
CMSC 142	Design & Analysis of Algorithms	3.0	CMSC 123

21.0

Second Semester

Elective		3.0	
Elective		3.0	
GE (SSP)	5	3.0	
CMSC 125	Operating Systems	3.0	CMSC 123, CMSC 131
CMSC 128	Introduction to Software Engineering	3.0	CMSC 123
CMSC 141	Automata & Language Theory	3.0	CMSC 55

18.0

Summer

CMSC 195	Practicum	3.0

		3.0

FOURTH YEAR

First Semester

Elective		3.0	
Elective		3.0	
GE (MST)	4	3.0	
CMSC 132	Computer Architecture	3.0	CMSC 131
CMSC 121	Internet Technologies	3.0	CMSC 22
CMSC 198.1	Special Problem 1	3.0	

		18.0	

Second Semester

Elective		3.0	
Elective		3.0	
PI 100	The Life and Works of Jose Rizal	3.0	
CMSC 135	Data Communication & Networking	3.0	CMSC 125
CMSC 198.2	Special Problem 2	3.0	CMSC 198.1
CMSC 196	Undergraduate Seminar	1.0	

		16.0	

TOTAL UNITS : 153.0

COMPUTER ELECTIVE COURSES

CMSC 180	Computer Simulation and Modelling	3.0
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