Back

Program Code :   102004
Program Revision Code :   102004004
Name   :   B.S. in Computer Science
Title :   Bachelor of Science in Computer Science

FIRST   YEAR

First Semester

GE Core		3.0	
GE Core		3.0	
NSTP		(3.0)	
CMSC 11	Introduction to Computer Science	3.0	
CMSC 56	Discrete Mathematical Structures in Computer Science 1	3.0	
Math 18	Precalculus Mathematics	5.0	
CMSC 10	Introduction to Computing	1.0	
PE 1	Foundations of Physical Fitness	(2.0)	

		18.0	

Second Semester

GE Core		3.0	
GE Core		3.0	
GE Core		3.0	
P.E.		(2.0)	
NSTP		(3.0)	
Math 53	Calculus I	4.0	**Math 18**
CMSC 21	Fundamentals of Programming	3.0	**CMSC 11**
CMSC 57	Discrete Mathematical Structures in Computer Science 2	3.0	**CMSC 56**

		19.0	

SECOND   YEAR

First Semester

GE Core		3.0	
P.E.		(2.0)	
Math 54	Calculus II	4.0	**Math 53**
CMSC 123	Data Structures	3.0	**CMSC 21, CMSC 57**
Physics 71	Elementary Physics I	4.0	**Math 18**
Physics 71.1	Elementary Physics I Laboratory	1.0	
CMSC 22	Fundamentals of Object-oriented Programming	3.0	**CMSC 21 OR Math 153**

		18.0	

Second Semester

GE Elective		3.0	

GE Core		3.0	
P.E.		(2.0)	
CMSC 127	Database Systems	3.0	**CMSC 123**
CMSC 130	Logic Design and Digital Computer Cicuits	4.0	**CMSC 11, Physics 71**
CMSC 142	Design and Analysis of Algorithms	3.0	**CMSC 123**
CMSC 126	Web Programming	3.0	**CMSC 22**

		19.0	

THIRD   YEAR

First Semester

CMSC 124	Design and Implementation of Programming Languages	3.0	**CMSC 123**
CMSC 128	Software Engineering 1	3.0	**CMSC 126, CMSC 127**
CMSC 131	Introduction to Computer Organization & Machine Level Programming	3.0	**CMSC 130, CMSC 21**
CMSC 141	Automata & Language Theory	3.0	**CMSC 57**
Stat 105	Introduction to Statistical Analysis	3.0	**Math 18**
CMSC 134	Human-Computer Interaction	3.0	**CMSC 126**

		18.0	

Second Semester

Computer Science Elective		3.0	
CMSC 125	Operating Systems	3.0	**CMSC 123, CMSC 131**
CMSC 132	Computer Architecture	3.0	**CMSC 131**
Stat 106	Advanced Statistical Analysis	3.0	**Stat 105**
CMSC 129	Software Engineering 2	3.0	**CMSC 128**
COMM 12	Technical Communication	3.0	**COMM 10**

		18.0	

Midyear

CMSC 195	Practicum	3.0	**CMSC 129**

		3.0	

FOURTH   YEAR

First Semester

GE Elective		3.0	
Computer Science Elective		3.0	
GE Elective		3.0	
Computer Science Elective		3.0	
CMSC 137	Data Communication and Networking	3.0	**CMSC 125, CMSC 132**
CMSC 192	Ethical and Professional Issues in Computing	1.0	
CMSC 198.1	Special Problem I	2.0	**CMSC 195, COMM 12**

		18.0	

Second Semester

GE Elective		3.0	

Computer Science Elective		3.0	
GE Elective		3.0	
Computer Science Elective		3.0	
CMSC 198.2	Special Problem II	2.0	**CMSC 198.1**
PI 100	The Life & Works of Jose Rizal	3.0	

		17.0	

TOTAL UNITS :   148.0

APPROVED SPECIAL ELECTIVE COURSE(S):

GE ELECTIVE   COURSES

AQUA SCI 1	**People and the Aquatic World**	3.0
PHILARTS I	**Philippine Arts and Culture**	3.0
SAS 1	**Self and Society**	3.0
Science 10	**Probing the Physical World**	3.0
Science 11	**Living Systems, Concepts and Dynamics**	3.0
Soc Sci 5	**Understanding Gender**	3.0

COMPUTER SCIENCE ELECTIVE   COURSES

CMSC 138	**Computer Security**	3.0
CMSC 140	**Advanced Programming**	3.0
CMSC 143	**Advance Algorithms**	3.0
CMSC 151	**Systems Analysis & Design**	3.0
CMSC 152	**Management Information Systems (MIS)**	3.0
CMSC 153	**Accounting & Information Systems (AIS)**	3.0
CMSC 154	**Object-Oriented Analysis and Design**	3.0
CMSC 155	**Technopreneurship**	3.0
CMSC 156	**Mobile Development**	3.0
CMSC 161	**Interactive Computer Graphics**	3.0
CMSC 162	**3D Computer Graphics and Animation**	3.0
CMSC 170	**Introduction to Artificial Intelligence**	3.0
CMSC 171	**Expert Sysytems & Knowledge Engineering**	3.0
CMSC 173	**Data Mining**	3.0
CMSC 174	**Computer Vision**	3.0
CMSC 181	**Introduction to Parallel Computing**	3.0
CMSC 182	**Scientific Computing**	3.0
CMSC 197	**Special Topics (Intro to Data Science)**	3.0
CS 172	**Computing with Symbolic Expressions**	3.0
CS 180	**Computer Simulation & Modelling**	3.0
Math 114	**Linear Algebra**	3.0
Math 140	**Graph Theory and Its Applications**	3.0
Math 55	**Calculus III**	4.0

GE CORE   COURSES

ARTS I	**Critical Perspectives in the Arts**	**3.0**
ETHICS 1	**Ethics and Moral Reasoning in Everyday Life**	**3.0**
Hist 1	**Philippine History**	**3.0**
KAS 1	**Kasaysayan ng Pilipinas**	**3.0**
Math 10	**Mathematics, Culture, and Society**	**3.0**
STS 1	**Science, Technology and Society**	**3.0**
WIKA 1	**Wika, Kultura at Lipunan**	**3.0**