



SURIGAO STATE COLLEGE OF TECHNOLOGY
Surigao City

BACHELOR OF SCIENCE IN COMPUTER SCIENCE
Proposed Curriculum, Effective A.Y. 2013-2014

FIRST YEAR
First Semester

SUBJECT	DESCRIPTION	LEC	LAB	UNITS	PREREQUISITE
CS 111	Computer Fundamentals w/ Software Applications	2	3	3	None
CS 112	Computer Programming 1 with Logic Formulation and Flowcharting	2	3	3	None
Engl 1	Communication Arts 1	3	0	3	None
Math 1	College Algebra	3	0	3	None
Fili 1	Komunikasyon sa Akademikong Filipino	3	0	3	None
Nat Sci 1	Environmental Science	3	0	3	None
PE 1	Physical Fitness and Health	2	0	2	None
NSTP 1	National Service Training Program 1	3	0	3	None
Total		21	6	23	

Second Semester

SUBJECT	DESCRIPTION	LEC	LAB	UNITS	PREREQUISITE
CS 121	Computer Programming 2 (C#)	2	3	3	CS 111, CS 112
CS 122	Internet w/ Web Programming	2	3	3	CS 112
CS 123	Discrete Structures	3	0	3	Math 1
Engl 2	Communication Arts 2	3	0	3	Eng 1
Math 2	Trigonometry	3	0	3	Math 1
Psych 1	General Psychology	3	0	3	None
Fili 2	Pagbasa't Pagsulat Tungo sa Pananaliksik	3	0	3	Fil 1
PE 2	Fundamentals of Rhythmic Activities	2	0	2	PE 1
NSTP 2	National Service Training Program 2	3	0	3	NSTP 1
Total		24	6	26	

SECOND YEAR
First Semester

SUBJECT	DESCRIPTION	LEC	LAB	UNITS	PREREQUISITE
CS 211	Object-Oriented Programming 1 (Visual Basic)	2	3	3	CS 121
CS 212	Data Structures & Algorithms	2	3	3	CS 121, CS 123
CS 213	Digital Design	3	0	3	CS 123
Engl 3	Speech and Oral Communication w/ JEEP-Start 01	3	0	3	Eng 2
Phys 1	College Physics 1	3	3	4	Math 2
Math 3	Analytic & Solid Geometry	3	0	3	Math 2
Lit 1	Philippine Literature	3	0	3	None
PE 3	Individual and Dual Sports	2	0	2	PE 2
Total		21	9	24	

Second Semester

SUBJECT	DESCRIPTION	LEC	LAB	UNITS	PREREQUISITE
CS 221	Object-Oriented Programming 2 (Java)	2	3	3	CS 211
CS 222	Design and Analysis of Algorithm	2	3	3	CS 211, CS 212, CS 123
CS 223	Database System	2	3	3	CS 211, CS 212
CS 224	Automata and Language Theory	3	0	3	CS 212, CS 123
Hum 1	Art Appreciation	3	0	3	None
Stat 1	Probability & Statistics	3	0	3	Math 3
PE 4	Team Sports	2	0	2	PE 3
Jeep 02	Jeep Start 02	1.5	4.5	3	Jeep Start 01
Total		18.5	13.5	23	

THIRD YEAR
First Semester

SUBJECT	DESCRIPTION	LEC	LAB	UNITS	PREREQUISITE
CS 311	CS Elective 1 (Artificial Intelligence)	2	3	3	CS 221, CS 222
CS 312	Free Elective 1 (Web Applications Development)	2	3	3	CS 122, CS 221, CS 222
CS 313	Technical Writing and Presentation Skills	3	0	3	Eng 2, CS 111
CS 314	Computer Organization with Assembly Language	2	3	3	CS 213, CS 121
Electech	Modeling and Simulation Theory	2	3	3	CS 222, CS 221
Math 4	Calculus	3	0	3	Stat 1
Hist 1	Philippine History and Culture	3	0	3	None
Jeep 03	Jeep Start Accelerate 01	1.5	4.5	3	Jeep Start 02
Total		19	16.5	24	Development

Second Semester

SUBJECT	DESCRIPTION	LEC	LAB	UNITS	PREREQUISITE
CS 321	CS Elective 2 (Neural Networks)	2	3	3	CS 311
CS 322	Data Communication & Networking	2	3	3	CS 213, CS 315
CS 323	Programming Languages	2	3	3	CS 221, CS 224
CS 324	CS Elective 3 (Wireless Application)	2	3	3	CS 221, CS 223
CS 325	CS Elective 4 (Compiler Design)	2	3	3	CS 222, CS 311
CS 326	System Analysis and Design	3	0	3	CS 313, Eng 3
Pol Sci 1	Politics and Government w/ Philippine Constitution	3	0	3	Hist 1
Jeep 04	Jeep Start Accelerate 02	1.5	4.5	3	Jeep Start 03
Total		18	19.5	24	

Summer

SUBJECT	DESCRIPTION	LEC	LAB	UNITS	PREREQUISITE
CS 330	Practicum (162 hrs)	9	0	9	Regular 3rd year
Total		9	0	9	

FOURTH YEAR
First Semester

SUBJECT	DESCRIPTION	LEC	LAB	UNITS	PREREQUISITE
CS 411	Thesis 1 (Special Project 1)	3	0	3	Regular 4th year
CS 412	Professional Ethics	3	0	3	Regular 4th year

CS 413	Operating System	2	3	3	CS 222, CS 221
CS 414	Software Engineering	3	0	3	CS 223, CS 221, CS 326
Soc Sci 1	Society & Culture w/ Pop Ed & FP	3	0	3	None
Econ 1	Basic Economics with TAR	3	0	3	None
Total		17	3	18	

Second Semester

SUBJECT	DESCRIPTION	LEC	LAB	UNITS	PREREQUISITE
CS 421	Thesis II (Special Project 2)	3	0	3	CS 411
CS 422	Free Elective 2 (Management Information System)	3	0	3	CS 223
CS 423	Free Elective 3 (CS Special Topics and Seminars)	3	0	3	Regular 4th year
IOM	Industrial Organizational and Management	3	0	3	Regular 4th year
Philo 1	Logic	3	0	3	None
Rizal 1	Rizal's Life and Works	3	0	3	None
Total		18	0	18	

CS Elective 1 - Artificial Intelligence

CS Elective 2 - Neural Networks

CS Elective 3 - Wireless Application

CS Elective 4 -Compiler Design

Free Elective 1 -Web Applications Development

Free Elective 2 - Management Information System

Free Elective 3 - CS Special Topics and Seminars