



Republic of the Philippines
University of Science and Technology of Southern Philippines
C.M. Recto Ave., Lapasan, Cagayan de Oro City



College of Information Technology and Computing
BS in Computer Science

FIRST YEAR								
<i>First Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-Requisites	Co-Requisites
			Lec	Lab	Total			
MMW		Mathematics in Modern World	3	0	3	3	None	None
PurCom		Purposive Communication	3	0	3	3	None	None
TCW		The Contemporary World	3	0	3	3	None	None
RPH		Readings in Philippine History	3	0	3	3	None	None
PATHFit	1	Movement Competency Training or MCT	2	0	2	2	None	None
NSTP101B/A		CWTS/ROTC 1	3	0	3	3	None	None
CS	111	Introduction to Computing	2	3	5	3	None	None
CS	112	Computer Programming 1	2	3	5	3	None	None
TOTAL			21	6	27	23		
<i>Second Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-Requisites	Co-Requisites
			Lec	Lab	Total			
ArtApp		Art Appreciation	3	0	3	3	PurCom	None
UTS		Understanding the Self	3	0	3	3	None	None
STS		Science, Technology, and Society	3	0	3	3	None	None
PATHFit	2	Exercise-based Fitness Activities	2	0	2	2	PATHFIT1	None
NSTP102B/A		CWTS/ROTC 2	3	0	3	3	NSTP101B/A	None
CSMath	121	Linear Algebra for Computer Science	3	0	3	3		None
CS	121	Computer Programming 2	2	3	5	3	CS111, CS112	None
CS	122	Physics for Computer Science (Basic Electronics)	2	3	5	3	None	None
TOTAL			21	6	27	23		
SECOND YEAR								
<i>First Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-Requisites	Co-Requisites
			Lec	Lab	Total			
EnviSci		Environmental Science	3	0	3	3	None	None
PATHFit	3	Physical Activity Towards Health and Fitness 3 (Menu on Dance, Sports, Martial Arts, Group Exercise, Outdoor and Adventure Activities)	2	0	2	2	PATHFIT2	None
Rizal		Life and Works of Rizal	3	0	3	3	None	None



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CS	211	Discrete Structures 1	3	0	3	3	CSMath121	None
CS	212	Human Computer Interaction	2	3	5	3	CS121	None
CS	213	Data Structures and Algorithms (Algo 1)	2	3	5	3	CS121	None
CS	214	Fundamentals of Database Systems	2	3	5	3	CS121	None
CSMath	211	Statistics for Computer Science	2	3	5	3	None	None
TOTAL			19	12	31	23		
Second Semester								
Course Code		Description	No. of Hours			Units	Pre-Requisites	Co-Requisites
			Lec	Lab	Total			
Ethc		Ethics	3	0	3	3	None	None
PATHFIT	3	Physical Activity Towards Health and Fitness 4 (Menu on Dance, Sports, Martial Arts, Group Exercise, Outdoor and Adventure Activities)	2	0	2	2	PATHFIT3	None
CSMath	221	Calculus for Computer Science	3	0	3	3	None	None
CS	221	Algorithms and Complexity (Algo 2)	2	3	5	3	CS213	None
CS	222	Computer Architecture and Organization	2	3	5	3	CS122	None
CS	223	Discrete Structures 2	3	0	3	3	CS211	None
CS	224	Applications Development and Emerging Technologies	2	3	5	3	CS121	None
CS	225	Object-Oriented Programming	2	3	5	3	CS121	None
TOTAL			19	12	31	23		
THIRD YEAR								
First Semester								
Course Code		Description	No. of Hours			Units	Pre-Requisites	Co-Requisites
			Lec	Lab	Total			
GnS		Gender and Society	3	0	3	3	None	None
CS	311	Automata Theory and Formal Languages	2	3	5	3	CS221, CS225	None
CS	312	Introduction to Artificial Intelligence	2	3	5	3	CS221	None
CS	313	Networks and Communications	2	3	5	3	CS214	None
CS	314	Operating Systems	2	3	5	3	CS222	None
CS	315	Principles of Programming Languages	2	3	5	3	CS225, CS221	None
CS	316	Information Management	2	3	5	3	CS213, CS214	None



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Course Code		Description	No. of Hours			Units	Pre-Requisites	Co-Requisites
			Lec	Lab	Total			
CS	421	CS Thesis Writing 2	2	3	5	3	CS411	None
CSE	422	CS Elective 4*	2	3	5	3	*	None
CS3	423	CS Elective 5*	2	3	5	3	*	None
TOTAL			6	9	15	9		

LIST OF ELECTIVES

Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
CS	412	Graphics and Visual Computing	2	3	5	3	CS221, CSMath121	None
CS	413.1	Image Processing	2	3	5	3	CS221	None
CS	414	Data Mining	2	3	5	3	CS324	None
CS	422	Introduction to Neural Networks and Deep Learning	2	3	5	3	CS324	CS422.2
CS	423.1	Computer Vision	2	3	5	3	CS413.2	CS422.2

Prepared by:

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