University of Southeastern Philippines
College of Information and Computing

BACHELOR OF SCIENCE IN COMPUTER SCIENCE
CMO No. 25, series of 2015
Approved per BOR Resolution No. 58, series of 2018
Revised per BOR Resolution No. 75, series of 2019
Effective S.Y. 2018-2019

FIRST YEAR

1st Semester

Course No.	Course Title	Lec	Lab	Total Units Credit	Pre/Co-Requisite
GE 111	Purposive Communication	3	0	3	None
GE 112	Mathematics in the modern world	3	0	3	None
IC 111	Programming Paradigm 1	2	1	3	None
IC 112	Professional Ethics in Computing	3	0	3	None
IC 113	Probability and Statistics for Computing	3	0	3	None
CS 111	Advanced Algebra	3	0	3	None
PE 111	Movement Enhancement	2	0	2	None
NSTP 111	National Service Training Program	3	0	3	None
Total				**23**	

2nd Semester

Course No.	Course Title	Lec	Lab	Total Units Credit	Pre/Co-Requisite
GE 113	Understanding the Self	3	0	3	None
GE 114	Ethics	3	0	3	None
IC 124	Programming Paradigm 2	2	1	3	IC 111
IC 125	Discrete Math	3	0	3	IC 113, CS 111
IC 126	Interaction Design	2	1	3	None
CS 122	Introduction to Data Science	3	0	3	IC 113, IC 112
PE 122	Fitness Exercise	2	0	2	None
NSTP 122	National Service Training Program	3	0	3	None
Total				**23**	

SECOND YEAR

1st Semester

Course No.	Course Title	Lec	Lab	Total Units Credit	Pre/Co-Requisite
GE 215	Life and Works of Jose Rizal	3	0	3	None
GE 216	Readings in Philippine History	3	0	3	None
IC 217	Data Structures	2	1	3	IC 124, IC 125
̀13	Database Management Systems	2	1	3	CS 122
.4	Computer Networks Concepts and Theories	3	0	3	IC 125
CS 215	Design and Analysis of Algorithm	3	0	3	IC 124, IC 125
PE 213	Physical Activities Towards Health & Fitness I	2	0	2	None
Total				**20**	

2nd Semester

Course No.	Course Title	Lec	Lab	Total Units Credit	Pre/Co-Requisite
GE 217	Science, Technology and Society	3	0	3	None
GE 218	Arts Appreciation	3	0	3	None
CS 226	Data Analytics – Stat Using R	2	1	3	IC 217, CS 213
CS 227	Automata Theory	3	0	3	CS 215
CS 228	Artificial Intelligence	3	0	3	CS 215
CS 229	Design and Development Methodologies	2	1	3	CS 214, IC 126
PE 224	Physical Activities Towards Health & Fitness II	2	0	2	None
Total				**20**	

THIRD YEAR

1st Semester

Course No.	Course Title	Lec	Lab	Total Units Credit	Pre/Co-Requisite
EGE 311	General Education Elective 1	3	0	3	None
GE 319	Contemporary World	3	0	3	None
CSDS 311	Big Data Management	3	0	3	CS 229
CSDS 312	Applied Data Science	2	1	3	CS 229
CSDS 313	Business Intelligence	3	0	3	CS 226
CSDS 314	Machine Learning	2	1	3	CS 228
CS 3110	Modelling and Simulation	2	1	3	CS 227
ICE 311	Professional Elective 1	3	0	3	All prior Professional & Common Courses
Total				**24**	

2nd Semester

Course No.	Course Title	Lec	Lab	Total Units Credit	Pre/Co-Requisite
EGE 312	General Education Elective 2	3	0	3	None
EGE 313	General Education Elective 3	3	0	3	None
CSDS 325	Intelligent Information Systems	2	1	3	CSDS 313, CSDS 314
CSDS 326	Social Network Analysis	2	1	3	CSDS 311, CSDS 312
CSDS 327	Data Visualization	2	1	3	CSDS 311, CSDS 312
ICE 322	Professional Elective 2	3	0	3	All prior Professional & Common Courses
ICE 323	Professional Elective 3	3	0	3	All prior Professional & Common Courses
CS 3211	CS Research Methods	3	0	3	CS 226
Total				**24**	

SUMMER

Course No.	Course Title	Lec	Lab	Total Units Credit	Pre/Co-Requisite
Thesis 400	Thesis*	0	2	2	CS 3211
CSPR 331	CS Practicum	0	3	3	All prior Professional & Common Courses
Total				**5**	

FOURTH YEAR

1st Semester

Course No.	Course Title	Lec	Lab	Total Units Credit	Pre/Co-Requisite
ICE 414	Professional Elective 4	3	0	3	All prior Professional & Common Courses
ICE 415	Professional Elective 5	3	0	3	All prior Professional & Common Courses
Thesis 400	Thesis*	0	2	2	CS 3211
Total				**8**	

2nd Semester

Course No.	Course Title	Lec	Lab	Total Units Credit	Pre/Co-Requisite
CS 4212	Legal, Ethical and Policy Issues in Data Science	3	0	3	All prior Professional & Common Courses
Thesis 400	Thesis	0	2	2	CS 3211
Total				**5**	

*-A subject to be enrolled continuously until the last prescribed semester where student's grade will appear

ELECTIVES

Cloud Computing	Educational Data Mining	Publishing Research Papers in Computing
Digital Image Processing	Emerging Trends and Technologies	Affective Computing

GENERAL EDUCATION ELECTIVES

Environmental Science	People of the Earth's Ecosystem
Reading Visual Arts	Philippine Indigenous Communities
Gender and Society	Foreign Language

Summary

General Education	36
Common Courses	21
Professional Courses	63
Professional Electives	15
Additional Math Requirement	3
PE	8
NSTP	6
Total number of units	**152 Units**