



Republic of the Philippines
BATANGAS STATE UNIVERSITY
The National Engineering University
Alangilan Campus

Golden Country Homes, Alangilan Batangas City, Batangas, Philippines 4200

Tel Nos.: (+63 43) 425-0139 local 2222 / 2223

E-mail Address: cics.alangilan@g.batstate-u.edu.ph | Website Address: <http://www.batstate-u.edu.ph>

College of Informatics and Computing Sciences

CURRICULUM

BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Reference CMO No. 25, Series of 2015

FIRST YEAR							
FIRST SEMESTER							
Course Code	Course Title	Credit Units	Lec	lab	Prerequisite(s)	Co-requisite(s)	Category
CC 100	Introduction to Computing	3	2	3	-	-	TC-C
CC 101	Computer Programming	3	2	3	-	-	TC-C
GEEd 101	Understanding the Self	3	3	0	-	-	NTC-A
GEEd 102	Mathematics in the Modern World	3	3	0	-	-	NTC-A
GEEd 103	The Life and Works of Rizal	3	3	0	-	-	NTC-A
MATH 101	Differential Calculus	4	4	0	-	-	
PATHFit 1	Movement Competency Training	2	2	0	-	-	NTC-C
NSTP 111	National Service Training Program 1	3	3	0	-	-	NTC-D
	TOTAL	24	22	6	-	-	

FIRST YEAR							
SECOND SEMESTER							
Course Code	Course Title	Credit Units	Lec	lab	Prerequisite(s)	Co-requisite(s)	Category
CC 102	Advanced Computer Programming	3	2	3	CC 101		TC-C
CC 103	Data Structures and Algorithms	3	2	3	CC 100, CC 101		TC-C
GEEd 104	The Contemporary World	3	3	0	-		NTC-A
GEEd 108	Art Appreciation	3	3	0	-		NTC-A
GEEd 106	Purposive Communication	3	3	0	-		NTC-A
MATH 102	Integral Calculus	4	4	0	MATH 101		TC-A
PATHFit 2	Exercise-Based Fitness Activities	2	2	0	PATHFit 1		NTC-C
NSTP 121	National Service Training Program 2	3	3	0	NSTP 111		NTC-C
	TOTAL	24	22	6			



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SECOND YEAR							
FIRST SEMESTER							
Course Code	Course Title	Credit Units	Lec	lab	Prerequisite(s)	Co-requisite(s)	Category
OOP 101	Object-Oriented Programming	3	2	3	CC 102, CC 103		TC-D
CC 104	Information Management	3	2	3	CC 103		TC-C
GEd 105	Readings in Philippine History	3	3	0	-		NTC-A
AI 101	Linear Algebra for AI	3	3	0	-		TC-A
GEd 107	Ethics	3	3	0	-		NTC-A
CpE 405	Discrete Mathematics	3	3	0	MATH 101		TC-A
PHYS 111	General Physics 1	3	2	3	MATH 101		TC-B
PATHFit 3	Choice of Dance, Sports, Martial Arts, Group Exercise and Outdoor and Adventure Activities 1	2	2	0	PATHFit 1, PATHFit 2		NTC-C
TOTAL		23	20	9			

SECOND YEAR							
SECOND SEMESTER							
Course Code	Course Title	Credit Units	Lec	lab	Prerequisite(s)	Co-requisite(s)	Category
AL 101	Design and Analysis of Algorithms	3	2	3	CpE 405, CC 103		TC-D
OOP 102	Advanced Object-Oriented Programming	3	2	3	OOP 101		TC-D
NET 101	Fundamentals of Computer Networking	3	2	3	CC 100		TC-D
AR 101	Computer Architecture and Organization	3	2	3	CpE 405, OOP 101		TC-D
AI 102	Probability and Statistics for AI	3	3	0	MATH 102		TC-A
PHYS 112	General Physics 2	3	2	3	PHYS 111		TC-B
PATHFit 4	Choice of Dance, Sports, Martial Arts, Group Exercise and Outdoor and Adventure Activities 2	2	2	0	PATHFit 1, PATHFit 2		NTC-C
TOTAL		20	15	15			



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THIRD YEAR							
FIRST SEMESTER							
Course Code	Course Title	Credit Units	Lec	lab	Prerequisite(s)	Co-requisite(s)	Category
AL 102	Automata Theory and Formal Languages	3	3	0	AL 101, CpE 405		TC-D
SC 101	Secure Computing	3	2	3	CC 104		TC-D
NET 102	Advanced Computer Networking	3	2	3	NET 101		TC-D
CSAI 100	Artificial Intelligence	3	3	0	AI 101, AI 102, CpE 405		TC-D
DS 101	Data Science	3	2	3	AI 101, AI 102, CC 102		TC-D
CS ELEC 1	Professional Elective 1	3	2	3	3rd Year Standing		TC-E
PL 101	Programming Languages	3	3	0	OOP 101		TC-D
	TOTAL	21	17	12			

THIRD YEAR							
SECOND SEMESTER							
Course Code	Course Title	Credit Units	Lec	lab	Prerequisite(s)	Co-requisite(s)	Category
AI 103	Machine Learning and Neural Networks	3	2	3	CSAI 100, CC 102		TC-D
SE 101	Software Engineering	3	2	3	OOP 101, CC 104		TC-D
HCI 101	Human-Computer Interaction	3	3	0	CC 102		TC-D
CC 105	Applications Development and Emerging Technologies	3	2	3	OOP 101		TC-D
QM 101	Quantitative Methods	3	3	0	AI 102, CpE 405		TC-A
WS 101	Web Systems and Technologies	3	2	3	CC 104, OOP 101		TC-D
CS ELEC 2	Professional Elective 2	3	2	3	3rd Year Standing		TC-E
	TOTAL	21	16	15			



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THIRD YEAR							
Midterm							
Course Code	Course Title	Credit Units	Lec	lab	Prerequisite(s)	Co-requisite(s)	Category
CSP 100	Computer Science Internship	3	0	162	3rd Year Standing		TC-D
	TOTAL	3	0	162			

FOURTH YEAR							
FIRST SEMESTER							
Course Code	Course Title	Credit Units	Lec	lab	Prerequisite(s)	Co-requisite(s)	Category
THS 101	CS Thesis 1	3	3	0	4 th Year Standing		TC-D
SE 102	Advanced Software Engineering	3	2	3	SE 101		TC-D
OS 101	Principles of Operating System	3	3	0	AR 101		TC-D
CS ELEC 3	Professional Elective 3	3	2	3	4th Year Standing		TC-E
GEd 110	Advanced Technical Writing	3	3	0	-		NTC-A
GEd 111	Advanced Oral Communication	3	3	0	-		NTC-A
	TOTAL	18	16	6			

FOURTH YEAR							
SECOND SEMESTER							
Course Code	Course Title	Credit Units	Lec	lab	Prerequisite(s)	Co-requisite(s)	Category
THS 102	CS Thesis 2	3	3	0	THS 101		TC-D
PD 101	Parallel and Distributed Computing	3	2	3	OS 101, AL 101		TC-D
SIP 101	Social Issues and Professional Practice	3	3	0	CC 100		TC-D
GEd 109	Science, Technology and Society	3	3	0	-		NTC-A
ENGG 105	Technopreneurship	3	3	0	-		TC-D
	TOTAL	15	14	3			

**Year Standing - passed all Common and Professional Courses and completed at least 70% of the total units from previous semesters*

Total Units: 169