

## BACHELOR OF SCIENCE IN COMPUTER SCIENCE

(Proposed Curriculum effective SY 2010-2011)

### FIRST YEAR

#### First Semester

Course Code	Descriptive Title	Total Units	Lec Units	Lab Units	Co-REQ	Pre-REQ	Total HRS/WK
ITE111	CS/IT Fundamentals	4	3	1	None	None	6
ITE112	Programming 1 w/ Art & Style in Prog.	3	2	1	None	None	5
Math 1	College Algebra	3	3	0	None	None	3
Eng1	Study & Thinking Skills in English	3	3	0	None	None	3
His1	Philippine History & Culture	3	3	0	None	None	3
PS1	Phil. Constitution & Government	3	3	0	None	None	3
PE1	Physical Fitness	2	2				2
NSTP1	National Service Training Program I	(3)	3				3
<b>TOTAL</b>		<b>21(3)</b>	<b>22</b>	<b>2</b>			<b>28</b>

#### Second Semester

Course Code	Descriptive Title	Total Units	Lec Units	Lab Units	Co-REQ	Pre-REQ	Total HRS/WK
ITE122	Computer Programming II	3	2	1	None	ITE112	5
CS222	Data Structures	3	3	0	None	ITE112	3
Math2	Trigonometry	3	3	0	None	Math1	3
Eng2	Writing in the Discipline	3	3	0	None	Eng1	3
Fil1	Sining ng Pakikipagtalastasan	3	3	0	None	Eng1	3
Eco1	Principles of Economics w/ Land Reform & Taxation	3	3	0	None	None	3
PE2	Rhythmic Activities	2	2			PE1	2
NSTP2	National Service Training Program II	(3)	3			NSTP1	3
RE1	Outline to Salvation History	(3)	3	0	None	None	3
<b>TOTAL</b>		<b>20(6)</b>	<b>25</b>	<b>1</b>			<b>28</b>

### SECOND YEAR

#### First Semester

Course Code	Descriptive Title	Total Units	Lec Units	Lab Units	Co-REQ	Pre-REQ	Total HRS/WK
ITE211	Object Oriented Programming	3	2	1	None	ITE122	5
CS313	Design and Analysis of Algorithm	3	3	0	None	CS222	3
CSMath1	Discrete Structures/Mathematics	3	3	0	None	Math1	3
CSMath5	Analytic Geometry & Intro. To Calculus	3	3	0	None	Math2	3
Phy1	General Physics 1	4	3	1	None	None	6
Eng2a	Speech and Oral Communications	3	3	0	None	Eng2	3
Fil2	Pagbasa at Pagsulat ng ibat-ibang Disiplina	3	3	0	None	Fil1	3
PE3	Individual/Dual Sports & Games	2	2			PE2	2
<b>TOTAL</b>		<b>24</b>	<b>22</b>	<b>2</b>			<b>28</b>

#### Second Semester

Course Code	Descriptive Title	Total Units	Lec Units	Lab Units	Co-REQ	Pre-REQ	Total HRS/WK
ITE221	Database Systems/Database Management Systems	3	2	1	None	ITE122	5
CS411	Programming Languages	3	2	1	None	ITE122	5
CS326	Automata and Language Theory	3	3	0	None	ITE122	3
CS311	Digital Design	3	3	0	None	Math2	3
Phy2	General Physics 2	4	3	1	None	Phy1	6
Phi1	Logic	3	3	0	None	None	3
PE4	Team Sports and Games	2	2		None	PE3	2
RE2	Cristology	(3)	3	0	None	RE1	3
<b>TOTAL</b>		<b>21(3)</b>	<b>21</b>	<b>3</b>			<b>30</b>

### THIRD YEAR

#### First Semester

Course Code	Descriptive Title	Total Units	Lec Units	Lab Units	Co-REQ	Pre-REQ	Total HRS/WK
ITE311	Web Programming/Web Development	3	2	1	None	ITE221	5
CS417	Modelling and Simulation	3	3	0	None	Math1	3
ITE211	Computer Organization and Assembly Language	3	2	1	None	ITE122	5
	CS Elective 1	3	2	1	None	3rd year	5
CSMat27	Calculus	3	3	0	None	Math2	3
Engl10	Philippine Literature	3	3	0	None	None	3
<b>TOTAL</b>		<b>18</b>	<b>15</b>	<b>3</b>			<b>24</b>

#### Second Semester

Course Code	Descriptive Title	Total Units	Lec Units	Lab Units	Co-REQ	Pre-REQ	Total HRS/WK
ITE321	Software Engineering	3	2	1	None	ITE312	5
ITE223	Operating Systems & Applications	3	2	1	None	ITE211	5
	CS Electives 2	3	2	1	None	3rd year	5
	Free Elective 1	3	2	1	None	None	5
Math4c	Probability and Statistics	3	3	0	None	Math2	3
SS5	Intro. To Arts & Humanities	3	3	0	None	None	3
RE3	Ecclesiology & Sacraments	(3)	3	0	None	RE2	3
<b>TOTAL</b>		<b>18(3)</b>	<b>17</b>	<b>4</b>			<b>29</b>

#### Summer

Course Code	Descriptive Title	Total Units	Lec Units	Lab Units	Co-REQ	Pre-REQ	Total HRS/WK
CSOJT	Internship/OJT/Practicum	3	0	3	None	None	
<b>TOTAL</b>		<b>3</b>	<b>0</b>	<b>3</b>			<b>162</b>

### FOURTH YEAR

#### First Semester

Course Code	Descriptive Title	Total Units	Lec Units	Lab Units	Co-REQ	Pre-REQ	Total HRS/WK
CS414	Thesis 1	3	3	0	None	ITE321	3
ITE223	Network Principles & Programming/ Network Management	3	2	1	None	ITE223	5
ITE323	Professional Ethics	3	3	0	None	ITE111	3
	CS Elective 3	3	2	1	None	None	5
Psy1	Gen. Psychology w/ Drug Education	3	3	0	None	None	3
SS3	Family & Community Rels. Including Family Planning	3	3	0	None	None	3
<b>TOTAL</b>		<b>18</b>	<b>16</b>	<b>2</b>			<b>22</b>

#### Second Semester

Course Code	Descriptive Title	Total Units	Lec Units	Lab Units	Co-REQ	Pre-REQ	Total HRS/WK
CS424	Thesis 2	3	3	0	None	CS414	3
	CS Elective 4	3	2	1	None	None	5
	Free Elective 2	3	3	0	None	None	3
	Free Elective 3	3	3	0	None	None	3
PS3	Rizal's Life Works & Writing	3	3	0	None	None	3
RE4	Basic Christian Morality	(3)	3	0	None	RE3	3
<b>TOTAL</b>		<b>15(3)</b>	<b>17</b>	<b>1</b>			<b>20</b>

**Total**

**152/155 136 19**

CS Electives:

ITE322 Multimedia Systems  
 CS101 Artificial Intelligence  
 ITE100 Mobile Application & Programming  
 CS102 Compiler Design

Free Electives:

ITE400 Seminars & Field Trips on the Current Trend of Technology  
 CS103 Distributive Database  
 ITE200 Computer Graphics  
 ITE300 Management Information Systems  
 ITE312 Systems Analysis and Design