

# Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

## BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

Curriculum Year 2018-2019

COURSE CODE	COURSE TITLE	Lec	Lab		TOTAL	PRE-REQUISITES/ CO-REQUISITES
		Units/Hrs	Units	Hrs		
<b>FIRST YEAR, First Semester</b>						
CHM083	Chemistry for Engineers	3			3	co req CHM081L
CHM081L	Chemistry for Engineers Lab		1	3	1	co req CHM083
CpE001	Computer Engineering as a Discipline	1			1	
CpE012L	Programming Logic and Design Lab		2	6	2	
GEC013	Science, Technology, and Society	3			3	
GEC053	Art Appreciation	3			3	
MATH153A	Calculus 1	3			3	
NSTP1-18	National Service Training Program 1	3			3	
PE002-18	Physical Fitness & Related Activities	2			2	
RELED051	The Catholic Christian Faith	1			1	
	<b>Total</b>	<b>19</b>	<b>3</b>	<b>9</b>	<b>22</b>	
<b>FIRST YEAR, Second Semester</b>						
CpE042L	Object Oriented Programming Lab		2	6	2	CpE012L
Drw051L	Computer Aided Drafting		1	3	1	
FIL083	Komunikasyon sa Akademikong Filipino	3			3	
GEC003	Understanding the Self	3			3	
GEC073	Ethics	3			3	
MATH153B	Calculus 2	3			3	MATH153A
MATH323	Engineering Data Analysis	3			3	MATH153A
NSTP2-18	National Service Training Program 2	3			3	NSTP1-18
PE022-18	Rhythmic Activities	2			2	PE002-18
PHY083	Physics for Engineers	3			3	MATH153A, co-req Phy081L
PHY081L	Physics for Engineers Lab		1	3	1	MATH153A, co-req Phy083
	<b>Total</b>	<b>23</b>	<b>4</b>	<b>12</b>	<b>27</b>	
<b>SECOND YEAR, First Semester</b>						
CpE033	Fundamentals of Electrical Circuits	3			3	PHY083, PHY081L, co-req CpE031L
CpE031L	Fundamentals of Electrical Circuits Lab		1	3	1	PHY083, PHY081L, co-req CpE033
CpE072L	Data Structures and Algorithms Lab		2	6	2	CpE042L
FIL093	Pagbasa at Pagsulat Tungo sa Pananaliksik	3			3	FIL083
GEC023	Mga Babasahin Hinggil sa Kasaysayan ng Pilipinas	3			3	
LQEC663	Letran Quality Enrichment Course 66	3			3	
MATH223	Differential Equations	3			3	MATH153B
MATH283	Discrete Mathematics	3			3	MATH153A
PE032-18	Individual/Dual Sports	2			2	PE002-18
RELED063	Contemporary Issues in Christian Marriage	3			3	RELED051
	<b>Total</b>	<b>23</b>	<b>3</b>	<b>9</b>	<b>26</b>	
<b>SECOND YEAR, Second Semester</b>						
CpE053	Fundamentals of Electronic Circuits	3			3	CpE033, CpE031L, co-req CpE051L
CpE051L	Fundamentals of Electronic Circuits Lab		1	3	1	CpE033, CpE031L, co-req CpE053
CpE123C	Software Design	3			3	CpE072L, co-req CpE121C-L
CpE121C-L	Software Design Lab		1	3	1	CpE072L, co-req CpE123C
ENGG103	Engineering Economics	3			3	MATH323
FIL113	Panitikang Filipino	3			3	FIL093
GEC033	Mathematics in the Modern World	3			3	
MATH303	Numerical Methods	3			3	MATH223, MATH283
PE042-18	Team Sports	2			2	PE002-18
RELED073	Contemporary Issues about Church and Human Society with Immersion	3			3	RELED051
	<b>Total</b>	<b>23</b>	<b>2</b>	<b>6</b>	<b>25</b>	
<b>THIRD YEAR, First Semester</b>						
CpElec-1	Cognate / Elective Course 1**	3			3	CpE123C, CpE121C-L
CpE083	Feedback and Control Systems	3			3	CpE033, CpE031L, MATH303
CpE153	Logic Circuits and Design	3			3	MATH283, CpE053, CpE051L, co-req CpE151L
CpE151L	Logic Circuits and Design Lab		1	3	1	MATH283, CpE053, CpE051L, co-req CpE153
CpE161B-L	Computer Engineering Drafting and Design Lab		1	3	1	CpE053, CpE051L, Drw051L
CpE203B	Operating Systems	3			3	CpE072L
CpE213B	Data and Digital Communications	3			3	CpE053, CpE051L
CpE321L	Introduction to HDL Lab		1	3	1	CpE012L, CpE053, CpE051L
ENGG223	Fundamentals of Mixed Signals and Sensors	3			3	CpE053, CpE051L
GEC063	Purposive Communication	3			3	
LQEC673	Letran Quality Enrichment Course 67	3			3	LQEC663
	<b>Total</b>	<b>24</b>	<b>3</b>	<b>9</b>	<b>27</b>	
<b>THIRD YEAR, Second Semester</b>						
CpElec-2	Cognate / Elective Course 2**	3			3	CpElec-1
CpE193	Microprocessors	3			3	CpE153, CpE151L, CpE321L, co-req CpE191L
CpE191L	Microprocessors Lab		1	3	1	CpE153, CpE151L, CpE321L, co-req CpE193
CpE263B	Computer Networks and Security	3			3	CpE203B, CpE213B, co-req CpE261B-L
CpE261B-L	Computer Networks and Security Lab		1	3	1	CpE203B, CpE213B, co-req CpE263B
CpE333	Embedded Systems	3			3	CpE083, ENGG223, co req CpE331L
CpE331L	Embedded Systems Lab		1	3	1	CpE083, ENGG223, co req CpE333
CpE342	CpE Laws and Professional Practice	2			2	CpE161B-L
CpE383	Methods of Research	3			3	CpE153, CpE151L, GEC063, MATH323
ENGG183	Basic Occupational Safety and Health	3			3	ENGG103
RZL023	Buhay at Mga Akda ni Rizal	3			3	
	<b>Total</b>	<b>23</b>	<b>3</b>	<b>9</b>	<b>26</b>	

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COURSE CODE	COURSE TITLE	Lec Units/Hrs	Lab Units Hrs	TOTAL	PRE-REQUISITES/ CO-REQUISITES
<b>THIRD YEAR, Inter-Semester</b>					
_____ CpE-PD1-L	CpE Practice and Design 1 Lab		1 3	<b>1</b>	CpE193, CpE191L, CpE333, CpE331L, CpE383
_____ CpElec-3	Cognate / Elective Course 3	3		<b>3</b>	CpElec-2
	<b>Total</b>	<b>3</b>	<b>1</b> <b>3</b>	<b>4</b>	
<b>FOURTH YEAR, First Semester</b>					
_____ CpE183A	Computer Architecture and Organization	3		<b>3</b>	CpE193, CpE191L, co-req CpE181A-L
_____ CpE181A-L	Computer Architecture and Organization Lab		1 3	<b>1</b>	CpE193, CpE191L, co-req CpE183A
_____ CpE253B	Digital Signal Processing	3		<b>3</b>	CpE083, co-req CpE251B-L
_____ CpE251B-L	Digital Signal Processing Lab		1 3	<b>1</b>	CpE083, co-req CpE253B
_____ CpE271B-L	Seminars and Fieldtrips Lab		1 3	<b>1</b>	CpE342
_____ CpE353	Emerging Technologies in CpE	3		<b>3</b>	CpE342, CpE263B, CpE261B-L
_____ CpE-PD2-L	CpE Practice and Design 2 Lab		2 6	<b>2</b>	CpE-PD1-L
_____ ENGG193	Technopreneurship	3		<b>3</b>	ENGG183
_____ GEC043	The Contemporary World	3		<b>3</b>	
_____ LQEC683	Letran Quality Enrichment Course 68	3		<b>3</b>	LQEC673
	<b>Total</b>	<b>18</b>	<b>5</b> <b>15</b>	<b>23</b>	
<b>FOURTH YEAR, Second Semester</b>					
_____ CpE-PRC6	*Practicum (600 hrs)	6		<b>6</b>	CpE183A, CpE181A-L, CpE253B, CpE251B-L, CpE271B-L, CpE353, CpE-PD2-L, ENGG193
	<b>Total</b>	<b>6</b>		<b>6</b>	
<b>GRAND TOTAL</b>		<b>162</b>	<b>24</b> <b>72</b>	<b>186</b>	

*\*Practicum - No simultaneous enrollment is allowed.*

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