

Colegio de San Juan de Letran Calamba

Brgy. Bucal, City of Calamba, Laguna

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING Curriculum Year 2022-2023

COURSE CODE	COURSE TITLE	Lec	Lab		TOTAL	PRE-REQUISITES/ CO-REQUISITES
		Units/Hrs	Units	Hrs		
FIRST YEAR, First Semester						
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	
PATHFIT1002	Movement Competency Training	2			2	
RELED051	The Catholic Christian Faith	1			1	
	Total	19	3	9	22	
FIRST YEAR, Second Semester						
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
PATHFIT2022	Exercise-Based Fitness	2			2	PATHFIT1002
PHY083	Physics for Engineers	3			3	MATH153A, co-req Phy081L
PHY081L	Physics for Engineers Lab		1	3	1	MATH153A, co-req Phy083
	Total	23	4	12	27	
SECOND YEAR, First Semester						
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
PATHFIT3032	Individual/Dual Sports	2			2	PATHFIT1002, PATHFIT2022
RELED063	Contemporary Issues in Christian Marriage	3			3	RELED051
	Total	23	3	9	26	
SECOND YEAR, Second Semester						
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
PATHFIT4042	Contemporary Dance	2			2	PATHFIT1002, PATHFIT2022
RELED073	Contemporary Issues about Church and Human Society with Immersion	3			3	RELED051
	Total	23	2	6	25	
THIRD YEAR, First Semester						
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
	Total	24	3	9	27	
THIRD YEAR, Second Semester						
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 co-req CPE193,CPE191L,CPE333,CPE331L
ENGG183	Basic Occupational Safety and Health	3			3	ENGG103
RZL023	Buhay at Mga Akda ni Rizal	3			3	
	Total	23	3	9	26	

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

*Practicum - No simultaneous enrollment is allowed.

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