

**HOLY ANGEL UNIVERSITY**  
**SCHOOL OF ENGINEERING AND ARCHITECTURE**  
**BACHELOR OF SCIENCE IN COMPUTER ENGINEERING (BSCpE)**  
Program Code: Comp. Eng'g  
EFFECTIVE SCHOOL YEAR 2018-2019 (with Amendments)

COURSE CODE	COURSE TITLE	LEC HRS	LAB HRS	CREDIT UNITS	PREREQUISITE(S)/ CO-REQUISITE(S)
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**FIRST YEAR, FIRST SEMESTER**

1PURCOMM	Purposive Communication	3	0	3	None
2MATHMWORLD	Mathematics in the Modern World	3	0	3	None
CALC1	Calculus 1 (Differential)	3	0	3	None
CHEMENG	Chemistry for Engineers	3	0	3	None
CHEMENGL	Chemistry for Engineers Laboratory	0	3	1	Co-req: CHEMENG
CADRAFTING	Computer-Aided Drafting	0	3	1	None
4FYE1	Big History 1: Big Bang to the Future	3	0	3	None
THEOLOGY101	Theological Foundations: Judeo-Christian Tradition and Sacred Scriptures	3	0	3	None
7PE1	PE 1 - Movement Enhancement	2	0	2	None
CWTS1	Civic Welfare Training Service	0	3	3	None
<b>TOTAL</b>		<b>20</b>	<b>9</b>	<b>25</b>	

**FIRST YEAR, SECOND SEMESTER**

4UNDERSELF	Understanding the Self	3	0	3	None
CALC2	Calculus 2 (Integral)	3	0	3	CALC1
EPHYSICS	Physics for Engineers	3	0	3	CALC1, Co-req: CALC2
EPHYSICSL	Physics for Engineers Laboratory	0	3	1	CALC1, Co-reqs: CALC2, EPHYSICS
CPEDCLIN	Computer Engineering as a Discipline	2	0	2	None
CPHWFUND	Computer Hardware Fundamentals	1	3	2	None
PROLOGDES	Programming Logic and Design	0	6	2	None
4FYE2	Big History 2: Looking through the Lens of Big History	3	0	3	4FYE1
THEOLOGY102	Special Issues in Catholic Theology	3	0	3	THEOLOGY101
7PE2	PE 2 - Fitness Exercises	2	0	2	7PE1
CWTS2	Civic Welfare Training Services 2	0	3	3	CWTS1
<b>TOTAL</b>		<b>20</b>	<b>15</b>	<b>27</b>	

**SECOND YEAR, FIRST SEMESTER**

4ETHICS	Ethics	3	0	3	None
4RIZAL	Life and Works of Rizal	3	0	3	None
DIFFEQNS	Differential Equations	3	0	3	CALC2
ENGDATA	Engineering Data Analysis	3	0	3	CALC1
DISCRETMATH	Discrete Mathematics	3	0	3	CALC1
ENGGECON	Engineering Economics	3	0	3	2nd Year Standing
FUNDCKTS	Fundamentals of Electrical Circuits	3	0	3	EPHYSICS, EPHYSICSL
FUNDCKTSL	Fundamentals of Electrical Circuits Laboratory	0	3	1	EPHYSICS, EPHYSICSL, Co-req: FUNDCKTS
OBJORPROG	Object-Oriented Programming	0	6	2	PROLOGDES
INCOMTECH1	Routing and Switching Essentials	1	3	2	CPHWFUND
7PE3	PE 3 - Physical Activities towards Health and Fitness 1	2	0	2	7PE2
<b>TOTAL</b>		<b>24</b>	<b>12</b>	<b>28</b>	

**SECOND YEAR, SECOND SEMESTER**

4CONWORLD	The Contemporary World	3	0	3	None
4READPHILHIS	Readings in Philippine History	3	0	3	None
9STS	Science, Technology and Society	3	0	3	None
DATASTALGO	Data Structures and Algorithms	0	6	2	OBJORPROG
ENVISCIENG	Environmental Science and Engineering	3	0	3	CHEMENG, CHEMENGL
ETRONCKTS	Fundamentals of Electronic Circuits	3	0	3	FUNDCKTS, FUNDCKTSL
ETRONCKTSL	Fundamentals of Electronic Circuits Laboratory	0	3	1	FUNDCKTS, FUNDCKTSL, Co-req: ETRONCKTS
NUMERICAL	Numerical Methods	3	0	3	DIFFEQNS
INCOMTECH2	Advanced Routing and Switching	1	3	2	INCOMTECH1
THEOLOGY103	Christian Spirituality in the Contemporary World	3	0	3	THEOLOGY102
7PE4	PE 4 - Physical Activities towards Health and Fitness 2	2	0	2	7PE3
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<b>THIRD YEAR, FIRST SEMESTER</b>					
3FIL1	Konstekswalisadong Komunikasyon sa Filipino	3	0	3	None
OCCUSAFETY	Basic Occupational Health and Safety	3	0	3	3rd Year Standing
CPEDRAFTDSN	Computer Engineering Drafting and Design	0	3	1	ETRONCKTS, ETRONCKTSL
DATADIGCOMM	Data and Digital Communications	3	0	3	ETRONCKTS, ETRONCKTSL
MIXEDSIGNALS	Fundamentals of Mixed Signals and Sensors	3	0	3	ETRONCKTS, ETRONCKTSL
LOGIC-CKTS	Logic Circuits and Design	3	0	3	ETRONCKTS, ETRONCKTSL
LOGIC-CKTSL	Logic Circuits and Design Laboratory	0	3	1	ETRONCKTS, ETRONCKTSL, Co-req: LOGIC-CKTS
OPERSYSTEMS	Operating Systems	3	0	3	DATAALGO
TECHENTREP	Technopreneurship	3	0	3	ENGGECON
INCOMTECH3	Scaling and Connecting Networks	1	3	2	INCOMTECH2
ELECTIVE 1	CpE Professional Elective 1			3	3rd Year Standing
<b>TOTAL</b>		<b>22</b>	<b>9</b>	<b>28</b>	

**THIRD YEAR, SECOND SEMESTER**

3FIL2	Filipino sa Iba't Ibang Disiplina	3	0	3	3FIL1
4ARTAPP	Art Appreciation	3	0	3	None
COMPNETSEC	Computer Networks and Security	3	0	3	DATADIGCOMM
COMPNETSECL	Computer Networks and Security Laboratory	0	3	1	DATADIGCOMM, Co-req: COMPNETSEC
ENGGMGMT	Engineering Management	3	0	3	3rd Year Standing
FEEDBACKCON	Feedback and Control Systems	3	0	3	NUMERICAL, FUNDCKTS, FUNDCKTSL
INTROHDL	Introduction to Hardware Description Language	0	3	1	PROLOGDES, ETRONCKTS, ETRONCKTSL
MICROPRCSR	Microprocessors	3	0	3	LOGIC-CKTS, LOGIC-CKTSL
MICROPRCSRL	Microprocessors Laboratory	0	3	1	LOGIC-CKTS, LOGIC-CKTSL, Co-req: MICROPRCSR
CPEMETHRES	Methods of Research	2	0	2	ENGDATA, 1PURCOMM, LOGIC-CKTS, LOGIC-CKTSL
INCOMTECH4	Cybersecurity Essentials	1	3	2	INCOMTECH3
ELECTIVE 2	CpE Professional Elective 2			3	
<b>TOTAL</b>		<b>21</b>	<b>12</b>	<b>28</b>	

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<b>FOURTH YEAR, FIRST SEMESTER</b>					
1LIT12	Great Books	3	0	3	None
COMPARCORG	Computer Architecture and Organization	3	0	3	MICROPRCSR, MICROPRCSRL
COMPARCORGL	Computer Architecture and Organization Laboratory	0	3	1	MICROPRCSR, MICROPRCSRL, Co-req: COMPARCORG
CPELAWS	CpE Laws and Professional Practice	2	0	2	3rd Year Standing
CPEPRACDSN1	CpE Practice and Design 1	0	3	1	MICROPRCSR, MICROPRCSRL, CPEMETHRES
SIGNALPRO	Digital Signal Processing	3	0	3	FEEDBACKCON
SIGNALPROL	Digital Signal Processing Laboratory	0	3	1	FEEDBACKCON, Co-req: SIGNALPRO
EMBEDDED	Embedded Systems	3	0	3	MICROPRCSR, MICROPRCSRL
EMBEDDEDL	Embedded Systems Laboratory	0	3	1	MICROPRCSR, MICROPRCSRL, Co-req: EMBEDDED
SOFTWAREDSN	Software Design	3	0	3	DATASTALGO
SOFTWAREDSNL	Software Design Laboratory	0	3	1	DATASTALGO, Co-req: SOFTWAREDSN
EMERGTECH	Emerging Technologies in Computer Engineering	3	0	3	4th Year Standing
ELECTIVE 3	CpE Professional Elective 3			3	
	<b>TOTAL</b>	<b>20</b>	<b>15</b>	<b>28</b>	

**FOURTH YEAR, SECOND SEMESTER**

CPEONJOB	CpE On-the-Job Training (320 hours)			3	4th Year Standing, Permission of Program Chair or School Dean
CPEPRACDSN2	CpE Practice and Design 2	0	6	2	CPEPRACDSN1
CPESEMFT	Seminars and Field Trips	0	3	1	4th Year Standing
	<b>TOTAL</b>	<b>0</b>	<b>9</b>	<b>6</b>	

**PROGRAM TOTAL**

**198**

**IMPORTANT:** Registration in any subject is allowed only upon passing the prerequisite(s) of the said subject, if any. A subject enrolled in violation of this rule will not be given any credit regardless of the grade obtained.

**NOTES:** The nth Year Standing means that the student must have completed at least 75% of the load requirements of the previous year level.

This curriculum is based on requirements specified by Commission on Higher Education (CHED) Memorandum Order No. 87, series of 2017: Policies, Standards and Guidelines for the Bachelor of Science in Computer Engineering Program.

**COGNATES/TECHNICAL ELECTIVES**

**Embedded Systems**

EMBEDSYS1	Embedded Systems 1	3	0	3	3rd Year Standing
EMBEDSYS2	Embedded Systems 2	3	0	3	EMBEDSYS1
EMBEDSYS3	Embedded Systems 3	3	0	3	EMBEDSYS2

**Microelectronics**

MICROEL1	Microelectronics 1	3	0	3	3rd Year Standing
MICROEL2	Microelectronics 2	3	0	3	MICROEL1
MICROEL3	Microelectronics 3	3	0	3	MICROEL2

**Software Development**

SOFTDEV1	Software Development 1	3	0	3	3rd Year Standing
SOFTDEV2	Software Development 2	3	0	3	SOFTDEV1
SOFTDEV3	Software Development 3	3	0	3	SOFTDEV2

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<b>System and Network Administration</b>					
SYSNETAD1	System and Network Administration 1	3	0	3	3rd Year Standing
SYSNETAD2	System and Network Administration 2	3	0	3	SYSNETAD1
SYSNETAD3	System and Network Administration 3	3	0	3	SYSNETAD2
<b>Technopreneurship</b>					
TECHNO1	Technopreneurship 1	3	0	3	3rd Year Standing
TECHNO2	Technopreneurship 2	3	0	3	TECHNO1
TECHNO3	Technopreneurship 3	3	0	3	TECHNO2