



# SPCBA

SAN PEDRO COLLEGE OF BUSINESS ADMINISTRATION, INC.

## BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

Revised Curriculum, Effective Academic Year 2010-2011

CODE	DESCRIPTIVE TITLE	units	Pre-requisite
<b>1st Year, First Semester</b>			
Math 1	College Algebra	3	
Math 6	Plane & Spherical Trigonometry	3	
Chem 1E	General Chemistry 1 (Lec)	3	
Chem 1EL	General Chemistry 1 (Lab)	1	
Drawing	Engineering Drawing (Lab)	1	
Eng 1	Communication Arts in English 1	3	
Fil 1	Komunikasyon sa Akademikong Pilipino	3	
Hum 1	Art, Man and Society	3	
Orient 1	Orientation and College Life	(1)	
PE 1	Physical Fitness	(2)	
NSTP 1	ROTC/CWTS 1	(3)	
		<b>20/26</b>	
<b>1st Year, Second Semester</b>			
Math 3E	Advanced Algebra	2	Math 1
Math 4E	Analytic Geometry	2	Math 1, Math 6
Math 5E	Solid Mensuration	2	Math 1, Math 6
CPE 01	Computer Hardware Fundamentals (Lab)	1	
Physics 1E	Physics 1 (Lec)	3	Math 1, Math 6
Physics 1EL	Physics 1 (Lab)	1	Math 1, Math 6
Eng 2	Communication Arts in English 2	3	Eng 1
Fil 2	Pagbasa at Pagsulat Tungo sa Pananaliksik	3	Fil 1
Orient 2	Orientation 2 and Group Dynamics	(1)	Orient 1
PE 2	Rhythmical Activities	(2)	PE 1
NSTP 2	ROTC/CWTS 2	(3)	NSTP 1
		<b>17/23</b>	
<b>2nd Year, First Semester</b>			
CPE 02	Discrete Mathematics	3	Math 1
Math 8E	Differential Calculus	4	Math 3E, Math 4E, Math 5E
BAES01	Computer Fundamentals and Programming (Lab)	2	2nd year standing
Physics 2E	Physics 2 (Lec)	3	Physics 1E, Physics 1EL
Physics 2EL	Physics 2 (Lab)	1	Physics 1E, Physics 1EL
Eng 3E	Technical Communication	3	Eng 2
PSY 1	General Psychology w/ HIV/Aids Education	3	
PE 3	Individual/Dual Sports	(2)	PE 2
		<b>19/21</b>	
<b>2nd Year, Second Semester</b>			
Prob Stat	Probability and Statistics	3	Math 3E
CPE 03	Data Structures and Algorithm Analysis (Lec, Lab)	4	BAES01
CPE 04	Software Installation and Network Maintenance	3	CPE 01
Math 9E	Integral Calculus	4	Math 8E
Hum 2	World Culture	3	Hum 1
Phil Hist	Philippine History	3	PSY 1
PE 4	Team Sports	(2)	PE 3
		<b>20/22</b>	
<b>3rd Year, First Semester</b>			
BAES02A	Computer Aided Drafting (Lab)	1	3rd year standing
BAES02	Engineering Economy	3	3rd year standing
AC01	Circuit 1 Lec	3	Physics 2E, Physics2EL, Math 8E
AC01L	Circuit 1 Lab	1	Physics 2E, Physics2EL, Math



AC02	Electronics Devices and Circuits Lec	3	8E Physics 2E, Physics2EL, Math 8E
AC02L	Electronics Devices and Circuits Lab	1	8E
Math 10E	Differential Equations	3	Math 9E
CPE 05	Comp. System Organization w/ Assembly Language (Lec, Lab)	4	CPE 03 Physics 2E, Physics2EL, Math 9E
BAES03	Statics of Rigid Bodies	3	9E
		<b>22/22</b>	

CODE	DESCRIPTIVE TITLE	units	Pre-requisite
<b>3rd Year, Second Semester</b>			
BAES04	Mechanics of Deformable Bodies	3	BAES03
AC04	Electronics Circuit Analysis and Design Lec	3	AC02, AC02L
AC04L	Electronics Circuit Analysis and Design Lab	1	AC02, AC02L
CPE 06	Logic Circuits Switching Theory Lec	3	AC02, AC02L
CPE 06L	Logic Circuits Switching Theory Lab	1	AC02, AC02L
AC03	Circuits 2 Lec	3	AC01, AC01L
AC03L	Circuits 2 Lab	1	AC01, AC01L
CPE 07	Advanced Engineering Mathematics for CpE	3	Math 9E
CPE 08	Computer Engineering Drafting and Design (Lab)	1	3rd year standing
BAES05	Dynamics of Rigid Bodies	2	BAES03
		<b>21/21</b>	

**Summer**

CPE Pract			
1	CPE Junior Practicum	2	

**4th Year, First Semester**

BAES06	Engineering Management	3	4th year standing
BAES07	Environmental Engineering	2	Chem 1E, Chem 1EL
BAES08	Safety Management	1	4th year standing
CPE 09	Advanced Logic Circuit Lec	3	CPE 06, CPE 06L
CPE 09L	Advanced Logic Circuit Lab	1	CPE 06, CPE 06L
CPE 10	Digital Signal Processing Lec	3	CPE 07
CPE 10L	Digital Signal Processing Lab	1	CPE 07
CPE 11	Principles of Communications	3	AC 03 Lec/Lab AC04 Lec/Lab
CPE 12	Control Systems Lec	3	AC 03 Lec/Lab AC04 Lec/Lab
CPE 12L	Control Systems Lab	1	AC 03 Lec/Lab AC04 Lec/Lab
IT 221	WEB Development (Lab)	3	CPE 05
		<b>24/24</b>	

**4th Year, Second Semester**

CPE 13	Operating Systems (Lec, Lab)	4	CPE 05 CPE 05 Lec/Lab, CPE 09 Lec/Lab
CPE 14	Computer System Architecture Lec	3	CPE 05 Lec/Lab, CPE 09 Lec/Lab
CPE 14L	Computer System Architecture Lab	1	Lec/Lab
CPE 15	Data Communications	3	CPE 11 CPE 05 Lec/Lab, CPE 06 Lec/Lab
CPE 16	Microprocessor System Lec	3	CPE 05 Lec/Lab, CPE 06 Lec/Lab
CPE 16L	Microprocessor System Lab	1	Lec/Lab
Phil Gov	Philippine Government & Constitution	3	Phil Hist
CPE 17	Introduction to Robotics	3	CPE 12, CPE 12L
ELEC 1	Embedded Systems	3	4th year standing
		<b>24/24</b>	

**Summer**

CPE Pract			
2	CPE Senior Practicum	2	

**5th Year, First Semester**

CPE 18	Design Project 1 (Methods of Research)	2	CPE 16, CPE 16L
CPE 19	Computer Networks Lec	3	CPE 15



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CPE 19L	Computer Networks Lab	1	CPE 15
CPE 20	Object Oriented Programming (Lec, Lab)	3	CPE 03
CPE 21	Engineering Ethics and Computer Laws	2	5th year standing
CPE 22	Software Engineering	3	CPE 03, CPE 03L
CS 422	Artificial Intelligence	3	CPE 17
ELEC2	Microelectronics	3	5th year standing

**20/20**

**5th Year, Second Semester**

CPE 23	Design Project 2 (Project Implementation) (Lab)	2	CPE 18
AC05	Entrepreneurship	3	5th year standing
CPE 24	Systems Analysis and Design (Lec, Lab)	3	CPE 03, CPE 20
CPE 25	Seminars and Field Trips (Lab)	1	5th year standing
Soc Sci 4	Society and Culture and Family Planning	3	Phil Gov
Rizal	Life and Works of Rizal	3	
PHILO 1	Social Philosophy	3	Hum 2
ELEC3	Instrumentation and Control	3	5th year standing

**21/21**