



BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

UNIVERSITY OF SAN JOSE-RECOLETOS
MAGALLANES ST., CEBU CITY
(Effective 2008 - 2009)



ID NO.	
NAME OF STUDENT	
ADVISER	
BATCH NO.	
CONTACT NO. & E-MAIL ADDRESS	

FIRST YEAR

FIRST SEMESTER

FG	COURSE NO.	DESCRIPTION	LEC HRS	LAB HRS	UNITS	PREREQUISITES	COREQUISITES
	EM 11A	College Algebra	3	0	3	None	None
	EM 11B	Plane and Spherical Trigonometry	3	0	3	None	None
	EPS 11A	General Chemistry 1 lec	3	0	3	None	EPS 11B
	EPS 11B	General Chemistry 1 lab	0	3	1	None	EPS 11A
	CMPE 111	Computer Fundamentals and Programming 1	3	3*	4	None	None
	DRAW 11A	Engineering Drawing 1	0	6	2	None	None
	ENGL 1	Study and Thinking Skills	3	0	3	None	None
	ReEd 1	Revelation and Faith	3	0	3	None	None
	PE 1	Physical Fitness	2	0	2	None	None
	NSTP 1	National Service Training Program 1	3	0	3	None	None
	Guidance 1	Adjustment to College Life – Phase 1	0	0	0	None	None
					27		

FIRST YEAR

SECOND SEMESTER

FG	COURSE NO.	DESCRIPTION	LEC HRS	LAB HRS	UNITS	PREREQUISITES	COREQUISITES
	EM 12A	Advanced Algebra	2	0	2	EM 11A	None
	EM 12B	Analytic Geometry	2	0	2	EM 11A, EM 11B	None
	EM 12C	Solid Mensuration	2	0	2	EM 11A, EM 11B	EM 12B
	EPS 12A	College Physics 1 lec	3	0	3	EM 11A, EM 11B	EPS 12B
	EPS 12B	College Physics 1 lab	0	3	1	EM 11A, EM 11B	EPS 12A
	DRAW 12A	Eng'g. Drafting 2 (CAD)	0	3	1	DRAW 11A	None
	CMPE 121	Computer Fundamentals and Programming 2	3	3*	4	CMPE 111	None
	ENGL 2	Writing in the Discipline	3	0	3	ENGL 1	None
	ReEd 2	Christology	3	0	3	ReEd 1	None
	PE 2	Rhythmic Activities	2	0	2	PE 1	None
	NSTP 2	National Service Training Program 2	3	0	3	NSTP 2	None
	Guidance 2	Values and Personality Development	0	0	0	Guidance 1	None
					26		

SECOND YEAR

FIRST SEMESTER

FG	COURSE NO.	DESCRIPTION	LEC HRS	LAB HRS	UNITS	PREREQUISITES	COREQUISITES
	EM 21A	Differential Calculus	4	0	4	EM 12A, EM 12B, EM 12C	None
	EPS 21A	College Physics 2 lec	3	0	3	EPS 12A, EPS 12B	EPS 21B
	EPS 21B	College Physics 2 lab	0	3	1	EPS 12A, EPS 12B	EPS 21A
	CMPE 211	Computer Hardware Fundamentals	0	3	1	None	None
	ENGL 3	Speech Improvement & Oral Communication	3	0	3	ENGL 2	None
	ReEd 3	Sacraments	3	0	3	ReEd 2	None
	FIL 1	Sining ng Pakikipagtalastasan	3	0	3	None	None
	PHILO 1	Logic	3	0	3	None	None
	PE 3	Individual & Dual Sports/Games	2	0	2	PE 2	None
					23		

SECOND YEAR

SECOND SEMESTER

FG	COURSE NO.	DESCRIPTION	LEC HRS	LAB HRS	UNITS	PREREQUISITES	COREQUISITES
	EM 22A	Integral Calculus	4	0	4	EM 21A	None
	EM 22B	Probability and Statistics	3	0	3	EM 11A	None
	CMPE 221	Discrete Math	3	0	3	EM 11A	None
	FIL 2	Pagbasa at Pagsulat sa Iba't-ibang Disiplina	3	0	3	FIL 1	None
	ENGL 3e	Technical Report Writing for Engineering Students	3	0	3	ENGL 2	None
	ReEd 4	Christian Morality	3	0	3	ReEd 3	None
	PSYCHO 1	General Psychology	3	0	3	None	None
	PE 4	Team Sports/Games	2	0	2	PE 3	None
					24		

Note: * - refers to lecture /laboratory delivery with reinforced open laboratory hours

THIRD YEAR

FIRST SEMESTER

FG	COURSE NO.	DESCRIPTION	LEC HRS	LAB HRS	UNITS	PREREQUISITES	COREQUISITES
	EM 31A	Differential Equations	3	0	3	EM 22A	None
	EE 31A	Circuits 1 lec	3	0	3	EPS 21A, EPS 21B, EM 22A	EE 31B
	EE 31B	Circuits 1 lab	0	3	1	EPS 21A, EPS 21B, EM 22A	EE 31A
	ECON 1	Principles of Economics with Taxation and Land Reform	3	0	3	None	None
	ES 02B	Environmental Engineering	2	0	2	EPS 11A, EPS 11B, 3 rd year level	None
	ES 02C	Safety Management	1	0	1	EPS 11A, EPS 11B, 3 rd year level	None
	CMPE 313	Data Structures & Algorithms Analysis	3	3*	4	CMPE 121	None
	ES 03A	Engineering Economy	3	0	3	3 rd year level	None
	MECH 01A	Statics of Rigid Bodies	3	0	3	EPS 21A, EPS 21B, EM 22A	None
	RIZAL	Life & Works of Rizal	3	0	3	None	None
					26		

THIRD YEAR

SECOND SEMESTER

FG	COURSE NO.	DESCRIPTION	LEC HRS	LAB HRS	UNITS	PREREQUISITES	COREQUISITES
	EM 32A	Advanced Engineering Mathematics for CpE	3	0	3	EM 31A	None
	EE 32A	Circuits 2 lec	3	0	3	EE 31A, EE 31B	EE 32B
	EE 32B	Circuits 2 lab	0	3	1	EE 31A, EE 31B	EE 32A
	ECE 32G	Electronics Devices and Circuits lec	3	0	3	EE 31A, EE 31B	ECE 32H
	ECE 32H	Electronics Devices and Circuits lab	0	3	1	EE 31A, EE 31B	ECE 32G
	CMPE 321	Comp. System Org. w/ Assembly Language lec	3	0	3	CMPE 313	CMPE 322
	CMPE 322	Comp. System Org. w/ Assembly Language lab	0	3*	1	CMPE 313	CMPE 321
	MECH 02A	Dynamics of Rigid Bodies	2	0	2	MECH 01A	None
	MECH 02B	Mechanics of Deformable Bodies	3	0	3	MECH 01A	None
	CMPE 323	Computer Engineering Drafting and Design	0	3	1	3 rd year level	None
	CMPE 325	Object Oriented Programming	3	3	4	CMPE 313	None
					25		

FOURTH YEAR

FIRST SEMESTER

FG	COURSE NO.	DESCRIPTION	LEC HRS	LAB HRS	UNITS	PREREQUISITES	COREQUISITES
	ES 04A	Engineering Management	3	0	3	3 rd year level	None
	ECE 41G	Electronic Circuit Analysis and Design lec	3	0	3	ECE 32G, ECE 32H	ECE 41H
	ECE 41H	Electronic Circuit Analysis and Design lab	0	3	1	ECE 32G, ECE 32H	ECE 41G
	CMPE 413	Structure of Programming Languages lec	3	0	3	CMPE 313	CMPE 414
	CMPE 414	Structure of Programming Languages lab	0	3*	1	CMPE 313	CMPE 413
	CMPE 415	Logic Ckts & Switching Theory lec	3	0	3	ECE 32G, ECE 32H	CMPE 416
	CMPE 416	Logic Ckts & Switching Theory lab	0	3	1	ECE 32G, ECE 32H	CMPE 415
	CMPE 417	VHDL	3	3	4	ECE 32G, ECE 32H	None
	ENGL 23	Effective Communication	3	0	3	ENGL 2	None
	POLSCI 1	Phil. Gov't. & the New Constitution Including Public Service	3	0	3	None	None
					25		

FOURTH YEAR

SECOND SEMESTER

FG	COURSE NO.	DESCRIPTION	LEC HRS	LAB HRS	UNITS	PREREQUISITES	COREQUISITES
	ECE 42I	Control Systems lec	3	0	3	ECE 41G, ECE 41H, EE 32A, EE 32B	ECE 42J
	ECE 42J	Control Systems lab	0	3	1	ECE 41G, ECE 41H, EE 32A, EE 32B	ECE 42I
	ECE 42K	Principles of Communication	3	0	3	ECE 41G, ECE 41H, EE 32A, EE 32B	None
	CMPE 421	Advanced Logic Circuits Analysis & Design lec	3	0	3	CMPE 415, CMPE 416	CMPE 422
	CMPE 422	Advanced Logic Circuits Analysis & Design lab	0	3	1	CMPE 415, CMPE 416	CMPE 421
	CMPE 423	Computer System Architecture	3	3	4	CMPE 321, CMPE 322,	None
	CMPE 425	Operating Systems	3	3*	4	CMPE 321, CMPE 322, CMPE 413, CMPE 414	None
	CMPE 427	Digital Signal Processing	3	3	4	EM 32A	None
	CMPE EL1	Professional Elective 1	3	3	4	4 th year standing, subject pre - requisite	None
					27		

FIFTH YEAR

SUMMER

FG	COURSE NO.	DESCRIPTION	LEC HRS	LAB HRS	UNITS	PREREQUISITES	COREQUISITES
	CMPE 501	Data Communications	3	0	3	ECE 42K	None
	CMPE 502	OJT	0	3	1	5 th year standing	None
	CMPE EL2	Professional Elective 2	3	3	4	5 th year standing, subject pre - requisite	None
					8		

FIFTH YEAR

FIRST SEMESTER

FG	COURSE NO.	DESCRIPTION	LEC HRS	LAB HRS	UNITS	PREREQUISITES	COREQUISITES
	CMPE 511	Interfacing Applied Mechatronics Technology	3	3	4	CMPE 421, CMPE 422, CMPE 423	None
	CMPE 513	Software Engineering	3	0	3	CMPE 425	None
	CMPE 514	System Analysis and Design	3	3	4	CMPE 313, CMPE 325	None
	CMPE 515	Microprocessor System lec	3	0	3	CMPE 321, CMPE 322, CMPE 415, CMPE 416	CMPE 516
	CMPE 516	Microprocessor System lab	0	3	1	CMPE 321, CMPE 322, CMPE 415, CMPE 416	CMPE 515
	SOCIO 1	Society and Culture	3	0	3	None	None
	CMPE 519	Design Project 1	2	0	2	5 th Year Standing	None
					20		

FIFTH YEAR

SECOND SEMESTER

FG	COURSE NO.	DESCRIPTION	LEC HRS	LAB HRS	UNITS	PREREQUISITES	COREQUISITES
	CMPE 521	Computer Networks	3	3	4	CMPE 501	None
	CMPE 523	Seminars and Field Trips	0	3	1	5 th year standing	None
	CMPE 524	Engineering Ethics and Computer Laws	2	0	2	5 th year standing	None
	CMPE 525	Technopreneurship	3	0	3	5 th year standing	None
	CMPE 527	Applied Mechatronics Design Project	0	6	2	CMPE 519	None
	CMPE EL3	Professional Elective 3	3	3	4	5 th year standing, subject pre-requisite	None
					16		

LIST OF PROFESSIONAL ELECTIVES	PRE-REQUISITE	LIST OF PROFESSIONAL ELECTIVES	PRE-REQUISITE
CMPE EL 1A - Embedded System	CMPE 515	CMPE EL 3A - Machine Elements I, II, III	3 rd year standing
CMPE EL 1B - Microelectronics	CMPE 515	CMPE EL 3B - PLC I, II, III	ECE 42A, ECE 42B
CMPE EL 1C - Information Technology	CMPE 521	CMPE EL 3C - Electrical Machinery: AC/DC	EE 32A, EE 32B
CMPE EL 1D - Software Development	CMPE 513, CMPE 514	CMPE EL 3D - Fluids and Hydraulics System	5 th year standing
CMPE EL 2A - Graphics Design	CMPE 325	CMPE EL 4A - Industrial Power Electronics	5 th year standing
CMPE EL 2B - Mobile Technology	CMPE 425	CMPE EL 4B - Computer Aided Design for MEC	CMPE 421, CMPE 427
CMPE EL 2C - Digital Image Processing	CMPE 427	CMPE EL 4C - Robotics	CMPE 515
CMPE EL 2D - Web Design	CMPE 521	CMPE EL 4D - Microcontrollers System	CMPE 515

IMPORTANT GUIDELINES

- The student is **not allowed** to enroll in any subject if the student has not finished or passed the subject's prerequisite(s).
- The department has the authority not to give credit to subjects that are not taken in the proper order.
- The student must see the year-level adviser or the department chairperson for any needed advice.

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