Cebu Doctors' University – College of Arts and Sciences

BACHELOR OF SCIENCE IN COMPUTER SCIENCE
(Effective Academic Year 2008 – 2009)

FIRST YEAR

First Semester

			Units
	Engl 11	Study and Thinking Skills	3
	Fil 11	Komunikasyon sa Akademikong Filipino	3
	Math 11	College Algebra	3
	Psych 11	General Psychology	3
	CS 10	Software Package	5
	CS 11	Introduction to Programming I	3
	CS 12	Introduction to Computer Science	3
	PE 11	Physical Fitness & Self Testing Activities	2
	NSTPCWTS 1	National Service Training Program I	3
			28

Second Semester

			Units
	Engl 12	Writing in the Discipline	3
	Fil 12	Pagbasa at Pagsulat sa Pananaliksik	3
	Spch 11	Oral and Aural Communication	3
	Philo 12	Philosophy of Man	3
	Math 15	Trigonometry with Analytic Geometry	3
	CS 14	Discrete Mathematics 1	3
	CS 13	Professional Ethics, Quality Consciousness, Habits, and Processes	3
	CS 15	Programming I	3
	PE 12	Rhythmic Activities and Dancing	2
	NSTP-CWTS II	National Service Training Program II	3
			29

SECOND YEAR

			UNIT
	Engl 13	Speech Communication	3
	Hist 11	Philippine History	3
	Math 14	Basic Statistics	3
	Math 21	Calculus	5
	CS 20	Computer Hardware	3
	CS 21	Programming II	3
	CS 22	Discrete Mathematics II	3
	CS 23	Operating Systems I	3
	PE 13	Games and Sports	2
			28

			Units
	Hist 12	Life and Works of Rizal	3
	Fil 13	Masining na Pagpapahayag	3
	CS 25	Programming III	3
	CS 26	Data Structures and Algorithms	6
	CS 27	Web Programming	3
	CS 29	On – the – Job Training	3
	PE 14	Recreational Activities	2
			24

The title ASSOCIATE IN COMPUTER TECHNOLOGY (ACT)
may be awarded after the completion of the completion of the SECOND YEAR curriculum

THIRD YEAR

	Engl 17	World Literature	3
	Phys 11	College Physics I	5
	CS 30	Logic Design and Digital Computer Circuits	3
	CS 31	File Processing and Principles of Database System	3
	CS 32	Technical Writing and Presentation Skills in IT	3
	CS 33	Data Communication	3
	CS 34	Object – Oriented Programming	3
		CS Elective I	3
			26

	Phys 12	College Physics II	5
	CS 35	Database Programming	5
	CS 36	Networking Technology	3
	CS 37	Introduction to Comp. Organization Architecture and Machine-Level Programming	3
	CS 38	Software Engineering	3
		CS Elective II	3
		CS Free Electives I	3
			25

FOURTH YEAR

	Human 11	Introduction to the Arts	3
	Econ 11	Health Economics with Taxation and Land Reform	3

	Anthro 11	Phil. Society & Culture with Family Planning	3
	CS 44	Artificial Intelligence	3

	PolSci 13	Politics and Governance with Phil. Constitution	3
	CS 40	Design and Analysis of Algorithm	3
	CS 41	Automata and Formal Language Theory	3
	CS 42	Operating Systems II	3
	CS 43	Design and Implementation of Programming Languages	3
		CS Elective III	3
		CS Free Elective II	3
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	CS 45	Principles of Compiler Design	3
	CS 46	Modeling & Simulation	3
	CS 48	Thesis	3
	CS 49	On – the – Job Training II	3
		CS Elective IV	3
		CS Free Elective IV	3
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CS Electives

CS 50 Theory of Computation
CS 51 Client – Server Programming
CS 52 Enterprise Applications Development
CS 53 Mobile Application Development

CS Free Electives

CS 54 Multimedia Systems
CS 55 Trend in Information and Communication Technology
CS 56 Accounting Information Systems

PRE – REQUISITES:

SUBJECTS	**PRE - REQUISITES**
English 12	English 11
English 13	English 12
Fil 12	Fil 11
Math 14	Math 11
Math 15	Math 11
Math 21	Math 15
Phys 11	Math 15
Phys 12	Phys 11
CS 12	Math 11
CS 21	CS 12
CS 22	Math 11 & Math 15
CS 23	CS 21 & CS 22
CS 24	CS 22
CS 25	CS 21
CS 30	CS 12
CS 31	CS 23
CS 35	CS 31
CS 36	CS 23
CS 37	CS 30
CS 40	CS 23 & Senior Standing
CS 41	CS 24 & Senior Standing
CS 42	CS 36 & CS 37
CS 45	CS 36 & CS 41
CS 46	CS 42 & CS 37
CS 48	CS 33, CS 35 & CS 40