

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
		27

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
		24

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

- English 12
- English 13
- Fil 12
- Math 14
- Math 15
- Math 21
- Phys 11
- Phys 12
- CS 12
- CS 21
- CS 22
- CS 23
- CS 24
- CS 25
- CS 30
- CS 31
- CS 35
- CS 36
- CS 37
- CS 40
- CS 41
- CS 42
- CS 45
- CS 46
- CS 48

PRE - REQUISITES

- English 11
- English 12
- Fil 11
- Math 11
- Math 11
- Math 15
- Math 15
- Phys 11
- Math 11
- CS 12
- Math 11 & Math 15
- CS 21 & CS 22
- CS 22
- CS 21
- CS 12
- CS 23
- CS 31
- CS 23
- CS 30
- CS 23 & Senior Standing
- CS 24 & Senior Standing
- CS 36 & CS 37
- CS 36 & CS 41
- CS 42 & CS 37
- CS 33, CS 35 & CS 40