

NEW *inclusion of CSC 196, Elective 4, CSC 157, CSC 158*
CURRICULUM REVISION FORM 2 (Semestral Offering)

Program: **Bachelor of Science in Computer Science**
 Department: Information Technology Department
 College: College of Engineering and Information Technology

Date of Last Revision: February 2014

Effectivity: AY: 2014 - 2015

First Year - First Semester

Course No	Description	Units	Units		Contact Hrs		Prerequisite
			Lab	Lec	Lab	Lec	
Math 1.7	College Algebra	3	0	3	0	3	
Math 2.1	Plane and Spherical Trigonometry	3	0	3	0	3	
Eng 1	Study & Thinking Skills	3	0	3	0	3	
IT 1	Computer Concepts and Fundamentals	3	1	2	3	2	
ACCTG 1	Basic Accounting I	3	0	3	0	3	
Fil 1	Komunikasyon sa Akademikong Filipino	3	3	0	3	0	
PE 1	Physical Fitness	2	0	2	0	2	
NSTP 1	CMT/LTS	3	0	3	0	3	
		23	1	19	6	19	

First Year - Second Semester

Course No	Description	Units	Units		Contact Hrs		Prerequisite
			Lab	Lec	Lab	Lec	
Math 6.4	Analytic Geometry	3	0	3	0	3	Math 1.7, Math 2.1
Math 4	Advance Algebra	2		2		2	Math 1.7
CSC 101	Fund. Of Problem Solving and Programming I	3	1	2	2	3	Math 1.7, IT 1
SOCSCI 4	Philippine History with New Constitution	3	0	3	0	3	
Eng 2	Writing in the Discipline	3	0	3	0	3	Eng 1
ACCTG 2	Basic Accounting II	3	0	3	0	3	ACCTG 1
Fil 2	Pagbasa at Pagsulat tungo sa Pananaliksik	3	0	3	0	3	Fil 1
PE 2	Rhythmic Activities	2	0	2	0	2	PE 1
NSTP 2	CMT/LTS	3	0	3	0	3	
		25	1	24	2	25	

Second Year - First Semester

Course No	Description	Units	Units		Contact Hrs		Prerequisite
			Lab	Lec	Lab	Lec	
Math 9.1	Differential Calculus	4	0	4	4	0	Math 4, Math 6.4
CSC 121	Data Structures I	3	1	2	3	2	CSC 101
Philo 2	Logic	3	0	3	3	0	
Phys 10	General Physics I (Lec)	3	0	3	3	0	Math 1.7, Math 2.1
Phys 10.1	General Physics I (Lab)	1	1	0	0	3	Math 1.7, Math 2.1
Engl 3	Speech and Oral Communication	3	0	3	0	3	Eng 2
LIT 1	Philippine Literature	3	0	3	0	3	
PE 3	Individual & Dual Sports	2	0	2	2	0	PE 1
		22	2	20	15	11	

Second Year - Second Semester

Course No	Description	Units	Units		Contact Hrs		Prerequisite
			Lab	Lec	Lab	Lec	
Math 9.2	Integral Calculus	4	0	4	0	4	Math 9.1
CSC 122	Data Structures II	3	0	3	0	3	CSC 121
CSC 141	Discrete Mathematics for Scientists & Engineers	3	0	3	3	0	Math 4, Philo 2

Phys 12	General Physics III (Lec)	3	0	3	0	3	Phys 10
Phys 12.1	General Physics III (Lab)	1	3	0	3	0	Phys 10
Hum 1	Introduction to Humanities	3	0	3	0	3	
PE 4	Major Sports/ Team Sports	2	0	2	0	2	PE 1
		19	3	18	6	15	

Third Year - First Semester

Courseno	Description	Units	Units		Contact Hrs		Prerequisite
			Lab	Lec	Lab	Lec	
CSC 103	Computational Methods	3	1	2	3	2	CSC 122
CSC 130	System Analysis and Design	3	1	2	3	2	CSC 122
IT 4	Quality Consciousness, Processes & Habits	3	0	3	0	3	
ES 20	Probability and Statistics (For Scientists and Technologies)	3	0	3	0	3	Math 9.2
CSC 122	Database Systems	3	1	2	3	2	CSC 122
SOCSOCI 22	Life and Works of Rizal	3	0	3	0	3	
ECE 103	Logic Design And Switching Theory	3	1	2	3	2	PHYS 12
		21	4	17	12	17	

Third Year - Second Semester

Courseno	Description	Units	Units		Contact Hrs		Prerequisite
			Lab	Lec	Lab	Lec	
CSC 110	Computer Organization and Architecture, and Assembly Language Programming	3	1	2	3	2	CSC 122
SOCSOCI 23	Gen Economics w/ Taxation and Agrarian Reform	3	0	3	0	3	
IT 3	Ethics for IT Professionals	3	0	3	0	3	
CSC 131	Software Engineering	3	1	2	3	2	CSC 130
CSC 198	Research Problem	3	0	0	0	0	Engl 4
CSC 104	Automata and Language Theory	3	0	3	0	3	CSC 122, CSC 141
		18	2	13	6	13	

Third Year - Summer

Courseno	Description	Units	Lab	Lec	Lab	Lec	Prerequisite
CSC 197	OJT - HRS (320 hrs) <i>IT Prof. Exam - Requirements before the student can enrol to 4th year</i> <i>(Note: An additional 500.00 pesos per student will be collected to defray expenses during the supervision and linkages activities which will be deposited under the college TF-OJT account)</i>	3					CSC 131

Fourth Year - First Semester

Courseno	Description	Units	Units		Contact Hrs		Prerequisite
			Lab	Lec	Lab	Lec	
CSC 107	Design and Implementation of Algorithms	3	1	2	3	2	CSC 101
CSC 105	Introduction to Compiler Design	3	1	2	3	2	CSC 104
SOCSOCI 1	Gen Sociology with Population Education	3	0	3	3	0	
CSC 112	Design and Analysis of Algorithm	3	0	3	0	3	CSC 101
CSC 199	Undergraduate Thesis or Project	3	0	0	0	0	CSC 198
Elective 1	Elective I	3					CSC 122
Elective 2	Elective II	3					CSC 122
		21	2	10	9	7	

Fourth Year - Second Semester

Courseno	Description	Units	Units		Contact Hrs		Prerequisite
			Lab	Lec	Lab	Lec	
CSC 113	Data Communications & Computer Networks	3	0	3	0	3	CSC 110
CSC 111	Operating Systems	3	0	3	3	3	CSC 110

CSC 140	Introduction to Artificial Intelligence	3	1	2	3	2	CSC 101
SOC SCI 6	General Psychology	3	0	3	0	3	
CSC 196	Trips and Seminars	3	0	0	0	0	CSC 122
Elective 3	Elective III	3					CSC 122
Elective 4	Elective IV	3					CSC 122
		21	1	11	6	11	

Total units
earned

173

ELECTIVES

IT 125	Interactive Multimedia Authoring	3	1	2	3	2	
IT 131	Management of Information Systems	3	0	3	0	3	
CSC 150	Object-Oriented Programming	3	1	2	3	2	
CSC 151	Parallel Computing	3	1	2	3	2	
CSC 152	Neural Networks	3	1	2	3	2	
CSC 153	Computer Simulation and Modelling	3	1	2	3	2	
CSC 154	Robot Modelling	3	1	2	3	2	
CSC 155	Introduction to Computer Graphics	3	1	2	3	2	
CSC 156	Advanced Assembly Programming	3	1	2	3	2	
CSC 157	Advance Database Systems (RDBMS)	3	1	2	3	2	
CSC 158	Client/Server Programming	3	1	2	3	2	
CSC 159	Structures of Programming Languages	3	1	2	3	2	

Bachelor of Science in Computer Science
SUMMARY OF UNITS

General Education Courses

Math 1.7	College Algebra	3	
Math 2.1	Plane Spherical Trigonometry	3	
Math 6.4	Analytic Geometry	3	
Math 4	Advance Algebra	2	
Math 9.1	Differential Calculus	4	
Math 9.2	Integral Calculus	4	
			19
Phys 10	General Physics I (Lec)	3	
Phys 10.1	General Physics I (Lab)	1	
Phys 12	General Physics III (Lec)	3	
Phys 12.1	General Physics III (Lab)	1	
			8
Fil 1	Komunikasyon sa Akademikong Filipino	3	
Fil 2	Pagbasa at Pagsulat tungo sa Pananaliksik	3	
			6
Eng 1	Study and Thinking Skills	3	
Eng 2	Writing in the Disciplines	3	
Engl 3	Speech and Oral Communication	3	
			9
SOCSCI 4	Philippine History with New Constitution	3	
SOCSCI 2	Life and Works of Rizal	3	
SOCSCI 5	Gen Economics w/ Taxation and Land Reform	3	
SOCSCI 1	Gen Sociology with Population Education	3	
SOC SCI 6	General Psychology	3	
			15
Philo 2	Logic	3	
Hum 1	Introduction to Humanities	3	
			6
PE 1	Physical Fitness	2	
PE 2	Rhythmic Activities	2	
PE 3	Individual & Dual Sports	2	
PE 4	Major Sports/ Team Sports	2	
NSTP 1	CMT/LTS	3	
NSTP 2	CMT/LTS	3	
			14

Core Courses

IT 1	Computer Concepts and Fundamentals	3	
ACCTG 1	Basic Accounting I	3	
CSC 101	Fund. Of Problem Solving and Programming I	3	
ACCTG 2	Basic Accounting II	3	
ES 20	Probability and Statistics(For Scientists and Technologies)	3	
IT 3	Ethics for IT Professionals	3	
			18
Professional Courses			
CSC 103	Computational Methods	3	
CSC 104	Automata and Language Theory	3	
CSC 105	Introduction to Compiler Design	3	
CSC 107	Design and Implementation of Prog. Language Computer Organization and Architecture, and Assembly Programming	3	
CSC 110	Operating Systems	3	
CSC 111	Design and Analysis of Algorithm	3	
CSC 112	Data Communications & Computer Networks	3	
CSC 121	Data Structures I	3	
CSC 122	Data Structures II	3	
CSC 122	Database Systems	3	
CSC 130	System Analysis and Design	3	
CSC 131	Software Engineering	3	
CSC 140	Introduction to Artificial Intelligence	3	
CSC 141	Discrete Mathematics for Scientist & Engineers	3	
CSC 197	OJT - HRS (320 hrs)	3	
CSC 198	Research Problem	3	
CSC 199	Undergraduate Thesis or Project	3	
ECE 103	Logic Design And Switching Theory	3	
IT 4	Quality Consciousness, Processes & Habits	3	
			60
Electives		3	
Elective 1	Elective I	3	
Elective 2	Elective II	3	
Elective 3	Elective III		9
			164
IT 125	Interactive Multimedia Authoring	3	
IT 131	Management of Information Systems	3	
CSC 150	Object-Oriented Programming	3	
CSC 151	Parallel Computing	3	
CSC 152	Neural Networks	3	
CSC 153	Computer Simulation and Modelling	3	
CSC 154	Robot Modelling	3	
CSC 155	Introduction to Computer Graphics	3	
CSC 156	Advanced Assembly Programming	3	
CSC 157	Advance Database Systems (RDBMS)	3	
CSC 158	Client/Server Programming	3	
CSC 159	Structures of Programming Languages	3	