



# CURRICULUM BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

Effectivity:  
SY 2014-2015

Document Code:  
QR – AAD - 002

Revision No.: 00

Issue No.: 01

Date Issued:  
March 23, 2014

## PROGRAM DESCRIPTION

The Bachelor of Science in Information Technology program is designed to provide outcome-based IT training that is not only nationally accredited but also globally competitive and to produce graduates who will be professionally competent, morally upright, and socially responsible contributors to national development.

The program is a study of the utilization of computers and computer software to plan, install, customize, operate, manage, administer and maintain information technology infrastructure. It prepares students to be IT professionals well versed on application, installation, operation, development, maintenance and administration of IT hardware and software.

The curriculum is based on the standards set by the Commission on Higher Education (CHED) and is benchmarked from the curricula of leading academic institutions, national and international, offering similar business programs and addresses the needs of the industry.

## PROGRAM OBJECTIVES

The program leading to the degree of Bachelor of Science in Information Technology has the following objectives:

1. To enable students to obtain a comprehensive knowledge and deep understanding of latest technology in information and communications.
2. To prepare students to be well versed on application, installation, operation, development, maintenance and administration and familiar with hardware installation, operation and maintenance.
3. To enable students to acquire the theoretical and practical skills needed to be globally competitive computer scientists.
4. To enable students to get a broad liberal education in the arts and letters, social sciences and philosophy, natural science and mathematics.
5. To enable students to develop the cultural sensitivity, ethical responsibility, and social consciousness needed to become upright citizens of the Philippines and the world.

## CAREER PATH

- Applications Developer
- Database Administrator
- Database Analyst
- Network Administrator
- Network Specialist
- Network Operations Analyst
- Information Security Administrator
- Systems Analyst
- Technical Support Specialist
- Information Security Specialist
- Web Administrator/Web Master
- Web Developer
- Information Technology Instructor
- Researcher

Prepared by:

CURRICULUM DEVELOPMENT SECTION

Reviewed by:

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Approved by:

ALMA V. DELA CRUZ, Ph.D.

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### PROGRAM STRUCTURE

#### FIRST YEAR ATTENDANCE

##### First Trimester

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
ENGL	101	Communication Skills 1	3	0	3	
MATH	101	College Algebra	3	0	3	
MATH	110	College Trigonometry	3	0	3	
CS	101	Introduction to Computing	2	1	3	
COMP	101	Knowledge Work Software and Presentation Skills	2	1	3	
ETHNS	101	Euthenics 1	1		(1)	

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##### Second Trimester

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
ENGL	102	Communication Skills 2	3	0	3	ENGL-101
PSYC	101	General Psychology	3	0	3	
FILI	101	Komunikasyon sa Akademikong Filipino	3	0	3	
MATH	213	Calculus with Analytic Geometry 1	3	0	3	MATH-101; MATH-110
CS	201	Computer Programming 1	2	1	3	CS-101
COMP	111	Introduction to Information Systems	2	1	3	COMP-101
ETHNS	102	Euthenics 2	1		(1)	

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##### Third Trimester

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
ENGL	201	Speech Communication 1	3	0	3	ENGL-102
FILI	102	Pagbasa at Pagsulat Tungo sa Pananaliksik	3	0	3	FILI-101
PSCI	101	Philippine History, Politics, Governance & Constitution	3	0	3	
MATH	214	Calculus with Analytic Geometry 2	4	0	4	MATH-213
NSCI	101	General Chemistry	3	1	4	
COMP	121	Introduction to the World Wide Web	2	1	3	COMP-111
PHYED	101	Physical Fitness	2	0	(2)	

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## SECOND YEAR ATTENDANCE

### First Trimester

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
ENGL	301	Technical, Scientific and Business English	3	0	3	ENGL-102
ECON	101	Principles of Economics with Agrarian Reform & Taxation	3	0	3	
SSCI	101	Society & Culture with FP/DA & Prevn/HIV/SARS Prevn	3	0	3	
MATH	215	Calculus with Analytic Geometry 3	4	0	4	MATH-214
COMP	134	Current Trends in IT (STCABS)	2	1	3	COMP-121
CS	202	Computer Programming 2	2	1	3	CS-201
PHYED	111	Rhythmic Activities	2	0	(2)	
NSTP	101	National Service Training Program 1			(3)	

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### Second Trimester

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
HUMA	111	Art Appreciation	3	0	3	
ENGL	311	Philippine Literature	3	0	3	
MATH	200	Statistics and Probability	3	0	3	MATH-101; 2nd year standing
CS	302	Object - Oriented Programming	2	1	3	CS-201
CS	301	Computer Programming 3 (Web Programming & Dev't)	2	1	3	CS-202
CS	332	Computer System Org., Archtr. & Assembly Lang. Prog.	2	1	3	CS-202
MATH	232	Discrete Structures 1	3	0	3	MATH-213
PHYED	121	Individual/Dual Sports	2	0	(2)	
NSTP	102	National Service Training Program 2			(3)	

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### Third Trimester

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
HUMA	101	Philosophy of Man	3	0	3	
NSCI	111	College Physics 1	3	1	4	MATH-101; MATH-110
CS	342	Principles of Operating Systems and its Applications	2	1	3	CS-332
CS	351	Database Management System 1 (Oracle 10g Admin 1)	2	1	3	CS-302
ACTG	100	Fundamental of Accounting Theory & Practice 1A (SAP)	2	1	3	MATH-101
IT	211	Data Communications and Networking 1 (CISCO 1)	2	1	3	3rd Year Standing
PHYED	131	Team Sports	2	0	(2)	
		IT Major Elective 1			3	

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### THIRD YEAR ATTENDANCE

#### First Trimester

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
CS	352	Database Management System 2 (Oracle 10g Admin 2)	2	1	3	CS-351
IT	212	Data Communications and Networking 2 (CISCO 2)	2	1	3	IT-211
IT	301	System Analysis and Design (PL/SQL Programming)	2	1	3	3rd Year Standing
CS	411	Professional Ethics in IT	3	0	3	4th Year Standing
CS	372	Introduction to Software Engineering	2	1	3	CS-332
		IT Major Elective 2			3	
CS	377	Application Lifecycle Management (HP) (Free Elective 1)	2	1	3	CS-201

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#### Second Trimester

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
IT	213	Data Communications and Networking 3 (CISCO 3)	2	1	3	IT-212
IT	421	IT Practicum (minimum of 486 hours)	0	9	9	
		IT Major Elective 3			3	
CS	378	Load Testing (HP) (Free Elective 2)	2	1	3	CS-377

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#### Third Trimester

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
IT	214	Data Communications and Networking 4 (CISCO 4)	2	1	3	IT-213
SSCI	111	Life & Works of Jose Rizal	3	0	3	
CS	382	Multimedia Systems	2	1	3	
IT	401	IT Capstone Project (Technopreneurship)	3	0	3	IT-421
		IT Major Elective 4			3	
CS	379	Unified Functional Testing (HP) (Free Elective 3)	2	1	3	CS-378

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**Total Academic Units**

172

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### LIST OF RECOMMENDED MAJOR ELECTIVES PER PLAN (*SPECIALIZATION TRACK*)

#### A. Computer Animation Plan (*Specialization*)

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
CS	391	Screen Writing	3	0	3	COMP-101; 2nd Year Standing
CS	392	Audio and Video Production	2	1	3	CS-391
CS	393	2D/3D Digital Animation	2	1	3	CS-391
CS	394	Animation Project	2	1	3	CS-393

#### B. Multimedia Arts Plan (*Specialization*)

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
CS	381	Introduction to Multimedia	2	1	3	COMP-101; 2nd Year Standing
CS	383	Digital Imaging	2	1	3	CS-381
CS	384	Multimedia Communication Systems	3	0	3	CS-383
CS	385	Multimedia Sound and Video	2	1	3	CS-384

#### C. Digital Arts (*Specialization*)

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
DA	102	Illustration	2	1	3	COMP-101
DA	103	Visual Graphics Design	2	1	3	DA-102
CS	388	2D/3D Game Art Development	2	1	3	DA-103
CS	393	2D/3D Digital Animation	2	1	3	CS-388

#### D. Service Management Specialization (*Specialization*)

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
SM	301	Service Culture	3	0	3	ENGL-301;
SM	311	Principles of System Thinking	3	0	3	ENGL-301;SM-301
SM	321	Fundamentals of Business Process Outsourcing 1	3	0	3	ENGL-301; SM-301
SM	322	Fundamentals of Business Process Outsourcing 2	3	0	3	ENGL-301; SM-301; SM-321
SM	500	SM Internship (min of 600 hours)*	0	6	6	SM-311;SM-322

**\*NOTE:**

Students who choose to take the Service Management Specialization Track must enroll IT500 (IT Practicum) and complete minimum of 600 OJT hours in the Business Process Outsourcing industry.

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### LIST OF RECOMMENDED MAJOR ELECTIVES PER PLAN (SPECIALIZATION TRACK)

#### E. Business Analytics (Specialization)

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
BA	301	Fundamentals of Business Analytics	2	1	3	MATH-213;CS-201,CS-301
BA	311	Fundamentals of Analytics Modeling	2	1	3	CS-402;BA-301
BA	321	Analytics Techniques and Tools	2	1	3	CS-402;BA-301
BA	331	Analytics Application	2	1	3	BA-311;BA-321
BA	500	Analytics Internship (min of 480 hours)*			6	BA-331

**\*NOTE:**

Students who choose to take the Business Analytics Specialization Track must enroll IT500 (IT Practicum) and complete minimum of 486 OJT hours utilizing Business Analytics.

#### F. Network Administration Plan (Specialization)

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
IT	312	Network Security	2	1	3	IT-211
IT	311	Network Infrastructure and Directory Services	2	1	3	2nd Year Standing
IT	321	Mail and Web Services	2	1	3	3rd Year Standing
IT	331	Linux Administration	2	1	3	3rd Year Standing

#### G. Web Application Development Plan (Specialization)

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
IT	341	Web Application Development 1	2	1	3	2nd Year Standing
IT	342	Web Application Development 2	2	1	3	IT-341
IT	343	XML - Based Web Applications	2	1	3	IT-342
IT	344	Web Enhanced Animation Graphics	2	1	3	IT-342

#### H. Game Development (Specialization)

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
CS	386	2D Game Art Development	2	1	3	2nd Year Standing
CS	387	3D Game Art Development	2	1	3	CS-386
CS	388	Game Engine Programming 1	2	1	3	CS-302, 3rd Year Standing
CS	389	Game Engine Programming 2	2	1	3	CS-388

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### LIST OF RECOMMENDED MAJOR ELECTIVES PER PLAN (*SPECIALIZATION TRACK*)

#### *I. Mobile Applications Development (Specialization)*

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
CS	366	Mobile Programming 1	2	1	3	CS-302
CS	368	Mobile Applications Design and Development	2	1	3	CS-302
CS	367	Mobile Programming 2	2	1	3	CS-302;CS-366
CS	369	Mobile Web Design and Development	2	1	3	CS-302;CS-368

#### *J. Robotics Plan (Specialization)*

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
MECH	101	Pneumatics & Hydraulics Technology, Design & Control	2	1	3	NSCI-112; 2nd Year Standing
MECH	201	Programmable Logic Controller	2	1	3	MECH-101; CS-201
MECH	301	Robotics Technology	2	1	3	MECH-101; MECH-201
MECH	311	Modular Production System	2	1	3	MECH-201; MECH-301

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### LIST OF RECOMMENDED FREE ELECTIVES

SUBJECT AREA	CAT. NO.	COURSE TITLE	LEC UNIT(S)	LAB UNIT(S)	UNIT(S)	PRE-REQUISITES
BA	101	Fundamentals of Business and Management	3	0	3	
BA	201	Business Processes	3	0	3	BA-101
MGT	101	Principles of Management	3	0	3	
MKTG	101	Principles of Marketing	3	0	3	MGT-101
MKTG	301	Creativity Innovation and New Product Development	3	0	3	MKTG-101
ENTR	101	Entrepreneurship	3	0	3	3 <sup>rd</sup> Year Standing
BA	331	Introduction to e-Commerce	2	1	3	COMP-121
IS	201	Human Computer Interaction	3	0	3	CS-201
IS	301	System Infrastructure and Integration	3	0	3	CS-201
CS	307	Programming RAD 7.0	2	1	3	CS-202
CS	308	Administering Websphere Server	2	1	3	CS-202
CS	321	Data Structures & Algorithms Analysis	3	1	4	CS-201
CS	362	Modeling and Simulation	2	1	3	CS-321
CS	377	Application Lifecycle Management (HP) (Free Elective 1)	2	1	3	CS-201
CS	378	Load Testing (HP) (Free Elective 2)	2	1	3	CS-377
CS	379	Unified Functional Testing (HP) (Free Elective 3)	2	1	3	CS-378

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## COMPARISON WITH CHED MINIMUM REQUIREMENT

CHED MINIMUM REQUIREMENT		AMACU COURSES			
CHED COURSE TITLE	CREDIT UNITS	SUBJ AREA	CAT. NO.	AMACU COURSE TITLE	CREDIT UNITS
<b>A. GENERAL EDUCATION</b>					
<b>Languages and Humanities</b>	<b>24</b>				<b>27</b>
<i>English</i>	9				12
1. Communication Skills		ENGL	101	Communication Skills 1	3
		ENGL	102	Communication Skills 2	3
2. Technical Writing / Presentation Skills		ENGL	201	Speech Communication 1	3
		ENGL	301	Technical, Scientific and Business English	3
<i>Filipino</i>	6				6
		FILI	101	Komunikasyon sa Akademikong Filipino	3
		FILI	102	Pagbasa at Pagsulat Tungo sa Pananaliksik	3
<i>Humanities (Literature, Arts, Philosophy)</i>	9				9
		ENGL	311	Philippine Literature	3
		HUMA	101	Philosophy of Man	3
		HUMA	111	Art Appreciation	3
<b>Mathematics, Natural Sciences Technology</b>	<b>15</b>				<b>28</b>
<i>Mathematics</i>	6				17
		MATH	101	College Algebra	3
		MATH	110	College Trigonometry	3
		MATH	213	Calculus with Analytic Geometry 1	3
		MATH	214	Calculus with Analytic Geometry 2	4
		MATH	215	Calculus with Analytic Geometry 3	4
<i>Natural Sciences</i>	6				8
		NSCI	101	General Chemistry	4
		NSCI	111	College Physics 1	4
<i>Electives (Math, Nat Science, Tech, etc.)</i>	3				3
1. Probability / Statistics		MATH	200	Statistics and Probability	3
<b>Social Sciences and Communications</b>	<b>15</b>				<b>15</b>
1. Psychology		PSYC	101	General Psychology	3
2. Phil Hist & Culture; Pol & Gov (w/ Cons)		PSCI	101	Phil History, Politics, Governance & Consti	3
3. Society & Culture (with Family Planning)		SSCI	101	Society & Culture w/ FP, DA & HIV/SARS Prev'n	3
4. Economics (with Tax & Agr'n Reform Int)		ECON	101	Prin. of Econ. w/ Agrarian Reform & Taxation	3
5. Life & Works of Rizal/Asian/Western Civil		SSCI	111	Life & Works of Jose Rizal	3
<b>B. BASIC ITE CORE COURSES</b>					
1. IT Fundamentals	3				<b>39</b>
		CS	101	Introduction to Computing	3
		COMP	101	Knowledge Work Software and Pres'n Skills	3
		COMP	111	Introduction to Information System	3
		COMP	134	Currents Trends in IT	3
2. Discrete Structures	3	MATH	232	Discrete Structures 1	3
3. Programming 1	3	CS	201	Computer Programming 1	3
4. Computer Organization	3	CS	332	Comp Org, Archi & Assembly Lang. Progg.	3

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CHED MINIMUM REQUIREMENT		AMACU COURSES			
CHED COURSE TITLE	CREDIT UNITS	SUBJ AREA	CAT. NO.	AMACU COURSE TITLE	CREDIT UNITS
5. Network Management	3	COMP	121	Introduction to the World Wide Web	3
		IT	211	Data Communications and Networking 1	3
		IT	212	Data Communications and Networking 2	3
		IT	213	Data Communications and Networking 3	3
		IT	214	Data Communications and Networking 4	3
6. Professional Ethics	3	CS	411	Professional Ethics in IT	3
<b>C. ITE PROFESSIONAL COURSES</b>	<b>33</b>				<b>42</b>
1. Accounting Principles	3	ACTG	100	Fun of Accounting Theory & Practice 1A	3
2. Programming 2	3	CS	202	Computer Programming 2	3
3. Object Oriented Programming	3	CS	302	Object - Oriented Programming	3
4. Database Management System 1	3	CS	351	Database Management System 1	3
5. Database Management System 2	3	CS	352	Database Management System 2	3
6. Operating System Applications	3	CS	342	Principles of Operating Systems and its Apps	3
7. Web Development	3	CS	301	Computer Programming 3 (Web Progg & Dev't)	3
8. Systems Analysis and Design	3	IT	301	System Analysis and Design ((PL/SQL Progg)	3
9. Software Engineering	3	CS	372	Introduction to Software Engineering	3
10. Multimedia Systems	3	CS	382	Multimedia Systems	3
11. Internship/OJT/Practicum	9	IT	421	IT Practicum (minimum of 486 hours)	9
12. Capstone Project (Technopreneurship)	3	IT	401	IT Capstone Project (Technopreneurship)	3
<b>D. ITE MAJOR ELECTIVES</b>	<b>12</b>				<b>12</b>
				IT Major Elective 1	3
				IT Major Elective 2	3
				IT Major Elective 3	3
				IT Major Elective 4	3
<b>E. ITE FREE ELECTIVES</b>	<b>9</b>				<b>9</b>
				Free Elective 1	3
				Free Elective 2	3
				Free Elective 3	3
<b>F. MISCELLANY COURSES</b>	<b>14</b>				<b>(16)</b>
Physical Education	8	PHYED	101	Physical Fitness	(2)
		PHYED	111	Rhythmic Activities	(2)
		PHYED	121	Individual/Dual Sports	(2)
		PHYED	131	Team Sports	(2)
National Service Training Program	6	NSTP	101	National Services Training Program 1	(3)
		NSTP	102	National Services Training Program 2	(3)
		ETHNS	101	Euthenics 1	(1)
		ETHNS	102	Euthenics 2	(1)
<b>TOTAL ACADEMIC UNITS:</b>	<b>140</b>				<b>172</b>

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