

# ATENEO DE NAGA UNIVERSITY

## Bachelor of Science in Information Technology Curriculum: Effective School Year 2007 – 2008

Bachelor of Science in Information Technology (BSIT) is the study of utilization of computers and computer software to plan, install, customize, operate, manage, administer and maintain information technology infrastructure.

The BSIT program prepares students to be IT professionals, be well versed on application installation, operation, development, maintenance and administration, and familiar with hardware installation, operation and maintenance.

After satisfactorily completing all the requirements leading to a BSIT degree, students may qualify for but not limited to the following entry level positions: Applications Developer, Database Administrator, Entrepreneur in IT Industry, Information Security Administrator, Information Technology Instructor, Network Administrator, Network Engineer, Systems Analyst, Technical Support Specialist, Test Engineer, Web Administrator/Web Master and Web Developer.

### FIRST YEAR

First Semester		Units	Lec Units	Lab Units	Total Hrs/Wk	Total Pay Units	Pre-Requisite
___ ICST101	Computing Fundamentals	3	2	1	5	5	NONE
___ MTHS000	*Basic Algebra	0	3	0	3	3	NONE
___ FILS001	Sining ng Pakikipagtalastasan	3	3	0	3	3	NONE
___ ENGS000	*English Plus	0	3	0	3	3	NONE
___ THES001	Salvation History	3	3	0	3	3	NONE
___ ACCS030	Intermediate Accounting	6	6	0	6	6	NONE
___ PEDS001	Physical Fitness	2	2	0	2	2	NONE
___ ICFP001	NSTP/Formation Program I	3	3	0	3	3	NONE
___ FRSH001	SRA Reading Program	0	0	0	1.5	0	NONE
		<b>20</b>	<b>25</b>	<b>1</b>	<b>29.5</b>	<b>28</b>	

Second Semester		Units	Lec Units	Lab Units	Total Hrs/Wk	Total Pay Units	Pre-Requisite
___ ICST102	Computer Programming 1	3	2	1	5	5	ICST101
___ ICST203	Fundamentals of Management and Business	3	3	0	3	3	NONE
___ MTHS001	College Algebra	3	3	0	3	3	MTHS000
___ MTHS130	Plane Trigonometry	3	3	0	3	3	MTHS001
___ ENGS001	Study and Thinking Skills	3	3	0	3	3	ENGS000
___ THES002	Christology	3	3	0	3	3	THES001
___ FILS002	Pagbasa at Pagsulat ng Iba't Ibang Disiplina	3	3	0	3	3	FILS001
___ PEDS002	Fund. Of Rhythmic Activities	2	2	0	2	2	PEDS001
___ ICFP002	NSTP/Formation Program II	3	3	0	3	3	NONE
___ FRSH001	SRA Reading Program	0	0	0	1.5	0	NONE
		<b>26</b>	<b>25</b>	<b>1</b>	<b>29.5</b>	<b>28</b>	

Summer		Units	Lec Units	Lab Units	Total Hrs/Wk	Total Pay Units	Pre-Requisite
___ PSYS001	General Psychology with HIV/Aids Education and Drug Abuse and Prevention	3	3	0	3	3	NONE
___ HISS001	Philippine History	3	3	0	3	3	NONE
___ HUMS001	Arts, Man and Society	3	3	0	3	3	NONE
		<b>9</b>	<b>9</b>	<b>0</b>	<b>9</b>	<b>9</b>	

### SECOND YEAR

First Semester		Units	Lec Units	Lab Units	Total Hrs/Wk	Total Pay Units	Pre-Requisite
___ ICST103	Computer Programming 2	3	2	1	5	5	ICST102
___ ICST104	Discrete Structures	3	3	0	3	3	MTHS001 & MTHS130
___ ICST106	Electronics and Computer Organization	3	2	1	5	5	MTHS001 & MTHS130
___ NSCS001	Physical Sciences	3	3	0	3	3	NONE
___ ENGS002	Writing in the Discipline	3	3	0	3	3	ENGS001
___ PHIS001	Philosophy of Human Person I	3	3	0	3	3	NONE
___ EVSS001	Fundamentals of Environmental Science	3	3	0	3	3	NONE
___ PEDS003	Individual/Dual Sports	2	2	0	2	2	PEDS001
		<b>23</b>	<b>21</b>	<b>2</b>	<b>27</b>	<b>27</b>	

Second Semester		Units	Lec Units	Lab Units	Total Hrs/Wk	Total Pay Units	Pre-Requisite
___ ICST201	Data Structures	3	2	1	5	5	ICST103
___ ICST211	Database Management Systems 1	3	2	1	5	5	ICST102
___ ICST214	Object Oriented Programming	3	2	1	5	5	ICST103
___ MTHS032	Calculus for Business	3	3	0	3	3	ICST104
___ ENGS003	Oral Communications with Conversation Workshop	3	3	0	3	3	ENGS001
___ HISS005	Life and Works of Rizal and Other Heroes	3	3	0	3	3	HISS001
___ PHIS002	Philosophy of Human Person II	3	3	0	3	3	PHIS001
___ PEDS004	Team Sports	2	2	0	2	2	PEDS001
		<b>23</b>	<b>20</b>	<b>3</b>	<b>29</b>	<b>29</b>	

Summer		Units	Lec Units	Lab Units	Total Hrs/Wk	Total Pay Units	Pre-Requisite
___ ICST217	Applied Statistics	3	3	0	3	3	MTHS001 & MTHS130
___ ICST230	Multimedia Systems	3	2	1	5	5	2 <sup>nd</sup> Yr Stndg
		<b>6</b>	<b>5</b>	<b>1</b>	<b>8</b>	<b>8</b>	

### THIRD YEAR

First Semester		Units	Lec Units	Lab Units	Total Hrs/Wk	Total Pay Units	Pre-Requisite
___ ICST212	Database Management Systems 2	3	2	1	5	5	ICST211
___ ICST221	Systems Analysis and Design	3	3	0	3	3	ICST211
___ ICST231	Web Development and Programming	3	2	1	5	5	ICST230 & ICST221
___ ICST3__	IT Elective 1	3	2	1	5	5	3 <sup>rd</sup> Yr Stndg
___ ICST4__	IT Free Elective 1	3	2	1	5	5	3 <sup>rd</sup> Yr Stndg
___ LITS000	**Introduction to Literature	3	3	0	3	3	SRA 3B
___ THES003	Church and Sacraments	3	3	0	3	3	THES002
		<b>21</b>	<b>17</b>	<b>4</b>	<b>29</b>	<b>29</b>	

Second Semester		Units	Lec Units	Lab Units	Total Hrs/Wk	Total Pay Units	Pre-Requisite
___ ICST107	Technopreneurship	3	3	0	3	3	3 <sup>rd</sup> Year
___ ICST222	Software Engineering	3	2	1	5	5	ICST221
___ ICST240	Operating Systems	3	2	1	5	5	3 <sup>rd</sup> Yr Stndg
___ ICST3__	IT Elective 2	3	2	1	5	5	3 <sup>rd</sup> Yr Stndg
___ PSCS001	Introduction to Politics & Governance With Philippine Constitution	3	3	0	3	3	NONE
___ PHIS003	Philosophy of Religion	3	3	0	3	3	PHIS002
___ ECOS001	Principles of Economics with Taxation and Agrarian Reform	3	3	0	3	3	NONE
		<b>21</b>	<b>18</b>	<b>3</b>	<b>27</b>	<b>27</b>	

Summer		Units	Lec Units	Lab Units	Total Hrs/Wk	Total Pay Units	Pre-Requisite
___ ICST500	Senior Practicum	9	0	9	9	9	3 <sup>rd</sup> Yr Stndg
		<b>9</b>	<b>0</b>	<b>9</b>	<b>9</b>	<b>9</b>	

### FOURTH YEAR

First Semester		Units	Lec Units	Lab Units	Total Hrs/Wk	Total Pay Units	Pre-Requisite
___ ICST241	Data Communications & Networking	3	2	1	5	5	ICST240
___ ICST503	Capstone Project 1	2	2	0	2	2	4 <sup>th</sup> Yr Stndg
___ ICST4__	IT Free Elective 2	3	2	1	5	5	3 <sup>rd</sup> Yr Stndg
___ ICST3__	IT Elective 3	3	2	1	5	5	3 <sup>rd</sup> Yr Stndg
___ SOCS001	Society & Culture with Family Planning, Bikol Culture & HIV/Aids Education	3	3	0	3	3	NONE
___ PHIS004	Moral Philosophy	3	3	0	3	3	PHIS003
		<b>17</b>	<b>14</b>	<b>3</b>	<b>23</b>	<b>23</b>	

Second Semester		Units	Lec Units	Lab Units	Total Hrs/Wk	Total Pay Units	Pre-Requisite
___ ICST108	Professional Ethics	3	3	0	3	3	PHIS004
___ ICST504	Capstone Project 2	1	1	0	1	1	ICST503
___ ICST3__	IT Elective 4	3	2	1	5	5	3 <sup>rd</sup> Yr Stndg
___ ICST4__	IT Free Elective 3	3	2	1	5	5	3 <sup>rd</sup> Yr Stndg
___ THES004	Fundamental of Moral Theology	3	3	0	3	3	Graduating
		<b>13</b>	<b>11</b>	<b>2</b>	<b>17</b>	<b>17</b>	

#### TOTAL

Units	Lec Units	Lab Units	Total Hrs/Wk	Total Pay Units
<b>188</b>	<b>165</b>	<b>29</b>	<b>237</b>	<b>234</b>

### ELECTIVE SUBJECTS

___ ICST303	Human Computer Interaction	___ ICST315	Client-Server Technologies
___ ICST304	Artificial Intelligence	___ ICST316	Visual Programming
___ ICST305	Security: Issues and Principles	___ ICST317	Electronic Commerce
___ ICST306	Network Administration and Maintenance	___ ICST318	Management Information Systems
___ ICST308	Undergraduate Seminar	___ ICST319	Business Process Reengineering
___ ICST314	Project Management and Quality Assessment		

**Note:** Additional elective subjects may be added at the discretion of the Department Chairperson.

\* If the students passes the English and Mathematics Validation Exams, he/she is exempted from taking ENGS000 and MTHS000 respectively.

\*\* Level 3B in SRA is required for enrollment in LITS000.

Others:

- Recollections and Retreats are incorporated in Theology subjects.
- Senior's Retreat is a requirement to graduation.