# BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY (BSIT)
**major in DATABASE SYSTEMS / NETWORK SYSTEMS / MULTIMEDIA SYSTEMS**

## FIRST YEAR

### 1st Semester

| Course No. | Course Title | Units | Pre-requisite |
|---|---|---|---|
| Eng 1 | College English I | 3 | none |
| Eng 3 | Oral Communication | 3 | none |
| Fil 1 | Sining ng Komunikasyon | 3 | none |
| Hist 1 | Philippine History | 3 | none |
| Math 17 | Algebra and Trigonometry | 6 | none |
| CSc 100 | Fundamentals of Computing | 3 | none |
| PE 1 | Physical Fitness and Health | 2 | none |
| NSTP 1 | ROTC 1 / CWTS 1 | (3) | none |
| | Total | **23** | |

### 2nd Semester

| Course No. | Course Title | Units | Pre-requisite |
|---|---|---|---|
| Eng 2 | College English II | 3 | Eng 1 |
| Math 51 | Analytic Geometry and Calculus I | 6 | Math 17 |
| Psych 20 | Business Psychology | 3 | none |
| Hum 1 | Introduction to Humanities | 3 | none |
| CSc 101N | Computer Programming I | 3 | CSc 100 & Math 17 |
| Bio 1 | Basic Biology | 3 | none |
| PE 2 | Martial Arts/Dance | 2 | PE 1 |
| NSTP 2 | ROTC 2 / CWTS 2 | (3) | NSTP 1 |
| | Total | **23** | |

## SECOND YEAR

### 1st Semester

| Course No. | Course Title | Units | Pre-requisite |
|---|---|---|---|
| Math 61 | Analytic Geometry & Calculus II | 6 | Math 51 |
| IT 111 | Digital Techniques Fundamentals | 3 | Math 17 |
| CSc 102 | Computer Programming II | 3 | CSc 101N |
| CSc 141 | Discrete Mathematics | 3 | Math 51 |
| IT 123 | Multimedia App. & Authoring Tools | 3 | Hum 1 |
| Eng 7 | Public Speaking | 3 | Eng 3 |
| PE 3 | Individual and Dual Sports | 2 | PE 1 |
| | Total | **23** | |

### 2nd Semester

| Course No. | Course Title | Units | Pre-requisite |
|---|---|---|---|
| Econ 1 | Intro. to Econ., Tax'n, Ref & Coop. | 3 | none |
| Eng 4 | Introduction to Literature | 3 | Eng 2 |
| Stat 32 | Statistics for Management Sciences | 3 | Math 17 or 2 |
| CSc 121 | Data Structures | 4 | CSc 102 |
| CSc 112 | Computer Org'n. & Architecture | 3 | IT 111 |
| CSc 112.1 | Computer Org'n. & Architecture (Lab | 1 | IT 111 |
| Free Elect. /Math 121* | Free Elective / Linear Algebra | 3 | none / Math 61 |
| PE 4 | Team Sports | 2 | PE 1 |
| | Total | **22** | |

### Summer

| Course No. | Course Title | Units | Pre-requisite |
|---|---|---|---|
| Eng 8 | Technical Writing | 3 | Eng 2 |
| CSc 151 | Database System | 3 | CSc 121 |
| | | **6** | |

\* Math 121 (Linear Algebra) *for Multimedia Track only*

## THIRD YEAR

### 1st Semester

| Course No. | Course Title | Units | Pre-requisite |
|---|---|---|---|
| Pol Sci 2 | Phil. Government, Const Land Ref Taxn Fam & Popn.,Educ | 3 | none |
| IT 155 | Intro. to Operating Systems | 3 | CSc 121 & 112 |
| IT 122 | Computer Networks | 3 | CSc 112 |
| Bus L 76 | Obligation and Contracts | 3 | none |
| CSc 124 | Design and Analysis of Algorithms | 3 | CSc 121 |
| CSc 181 | Software Engineering | 4 | CSc 151 |
| Tech Elect 1 | Specialization 1 | 3 | CSc 151 |
| | Total | **22** | |

### 2nd Semester

| Course No. | Course Title | Units | Pre-requisite |
|---|---|---|---|
| Acct 1 | Fund. of Accounting & Accounting Software Packages | 3 | none |
| Hist 5 | Life and Works of Rizal | 3 | none |
| CSc 186 | Human Computer Interaction | 3 | CSc 181N, IT 123 |
| IS 130 | Fundamentals of Business and Mgt. | 3 | none |
| CSc 171 | Introduction to Artificial Intelligence | 3 | CSc 121 |
| IT 191 / IT 198 | CAPSTONE Project 1 / Methods of Research | 3 | CSc 181N |
| Tech Elect 2 | Specialization 2 | 3 | CSC 181N |
| | Total | **21** | |

### Summer

| Course No. | Course Title | Units | Pre-requisite |
|---|---|---|---|
| Hist 3 | History of Filipino Muslims & Lumads | 3 | none |
| IT 192 / IT 199 | CAPSTONE Project 2 / Thesis | 3 | IT 191 / IT 198 |
| | | **6** | |

## FOURTH YEAR

### 1st Semester

| Course No. | Course Title | Units | Pre-requisite |
|---|---|---|---|
| Bus E 66 | New Enterprise Dev't in the Phil Env't | 3 | IS 130 |
| IT 193 | Special Topics in IT | 3 | CSc 181N |
| IS 132 | Project Mgt. & Quality Systems | 3 | IS 130 |
| CSc 109 | Social, Ethical & Professional Issues | 3 | CSc 181N |
| Tech Elect 3 | Specialization 3 | 3 | CSc 181N |
| Tech Elect 4 | Specialization 4 | 3 | CSc 181N |
| Tech Elect 5 | Specialization 5 | 3 | CSc 181N |
| | Total | **21** | |

### 2nd Semester

| Course No. | Course Title | Units | Pre-requisite |
|---|---|---|---|
| IT 197 | Supervised On-The-Job Training | 0 (700 hrs) | CSc 181N |

## TECHNICAL ELECTIVES (15 Units required for each Tract):

### DATABASE SYSTEMS TRACT
- IT 180  Data Warehousing & Data Mining
- IT 181  Distributed Databases
- IT 182  Web Services
- IT 183  Database Security, Admin & Mgt.
- IT 184  Advanced Databases
- IT 185  Lexical Databases
- IT 186  Modern Query Languages
- IT 187  Information Assurance
- IT 188  Information Engineering
- IT 189  Knowledge Based Systems

### NETWORK SYSTEMS TRACT
- IT 160  Routing and Routing Basics
- IT 161  Switching Basics & Intermediate Routing
- IT 162  WAN Technologies
- IT 163  Network Security
- IT 164  Network Administration
- IT 165  Directory Services
- IT 166  Network Design & Implementation
- IT 168  Wireless Technologies
- IT 169  Graph Theory and Applications

### MULTIMEDIA SYSTEMS TRACT
- IT 130  Multimedia Systems
- IT 131  Computer Graphics
- IT 132  3D Modeling & Animation
- IT 133  Advanced 3D Computer Modeling for Animation
- IT 134  Introduction to Games: Theory & Design
- IT 135  Instructional Software Design & Dev't.
- IT 136  Graphical User Interface & Interaction Design
- IT 137  Advanced Web Applications