# CHED CMO 25 Series of 2015 Revised Policies, Standards, and Guidelines for BSCS, BSIS, and BSIT Programs with sample curricula

Presented by : Gregg Victor Gabison

# Section 8 Curriculum (pre K12)

| | BSCS | BSIS | BSIT |
|---|---|---|---|
| General Education | 54.0 | 54.0 | 54.0 |
| Common Courses | 18.0 | 18.0 | 18.0 |
| Professional Courses | 48.0 | 48.0 | 48.0 |
| Professional Electives | 9.0 | 12.0 | 12.0 |
| Advanced Math Requirement | 3.0 | 0.0 | 0.0 |
| PE | 8.0 | 8.0 | 8.0 |
| NSTP | 6.0 | 6.0 | 6.0 |
| **Minimum Total Units** | **146.0** | **146.0** | **146.0** |

# common courses

- The common courses for the BSCS, BSIS, and BSIT:
  - Introduction to Computing
  - Computer Programming 1 (Fundamentals of Programming)
  - Computer Programming 2 (Intermediate Programming)
  - Data Structures and Algorithms
  - Information Management
  - Applications Development and Emerging Technologies

# Section 23 Revised GE

- When the k-12 is implemented, the new GE (CMO 20, series of 2013) comprising 36 units will replace the old GE of 54 units.

- The balance of 18 units may be replaced by professional/ domain courses in each of the three (3) programs (CS, IS and IT) as long as the minimum total number of units is satisfied as articulated in Section 8.1.

# Curriculum after K-12

| | BSCS | BSIS | BSIT |
|---|---|---|---|
| General Education | 36.0 | 36.0 | 36.0 |
| Common Courses | 18.0 | 18.0 | 18.0 |
| Professional Courses | 48.0 | 48.0 | 48.0 |
| Professional Electives | 9.0 | 12.0 | 12.0 |
| Advanced Math Requirement | 3.0 | 0.0 | 0.0 |
| Additional Professional or Domain Courses | 18.0 | 18.0 | 18.0 |
| PE | 8.0 | 8.0 | 8.0 |
| NSTP | 6.0 | 6.0 | 6.0 |
| Minimum Total Units | **146.0** | **146.0** | **146.0** |

# Curriculum (CMO 25 2015) pre K-12

| | BSIS |
|---|---|
| General Education | 54.0 |
| Common Courses | 18.0 |
| Professional Courses | 48.0 |
| Professional Electives | 12.0 |
| Advanced Math Requirement | 0.0 |
| PE | 8.0 |
| NSTP | 6.0 |
| Minimum Total Units | **146.0** |

# Curriculum after K-12 implementation

| | BSIS |
|---|---|
| General Education | 36.0 |
| Common Courses | 18.0 |
| Professional Courses | 48.0 |
| Professional Electives | 12.0 |
| Additional Professional or Domain Courses (Professional Track) | 18 |
| PE | 8.0 |
| NSTP | 6.0 |
| Minimum Total Units | 146.0 |

# Computing common courses

- The common courses for the BSCS, BSIS, and BSIT:
  - Introduction to Computing (CC 101)
  - Computer Programming 1 (Fundamentals of Programming) (CC 102)
  - Computer Programming 2 (Intermediate Programming) (CC 103)
  - Data Structures and Algorithms (CC 104)
  - Information Management (CC 105)
  - Applications Development and Emerging Technologies (CC 106)

# Section 8.2
# Specific Description of Program Curricula

- **Bachelor of Science in Information Technology (BSIT)**
  - The Information Technology curriculum includes basic and advanced courses on planning, development, integration, and management of information technology infrastructure that provide computing solutions to address the needs of organizations.
  - The curriculum should include courses that cover Knowledge Areas as recommended in ACM Information Technology Curricula 2008
  - 11 Knowledge Areas have been specified in the PSG

# Information Technology Knowledge Areas

1. Information Technology Fundamentals
2. Human Computer Interaction
3. Information Assurance and Security
4. Information Management
5. Integrative Programming and Technologies
6. Networking
7. Platform Technologies
8. Systems Administration and Maintenance
9. Systems Integration and Architecture
10. Social and Professional Issues
11. Web Systems and Technologies

# Section 8.2 Specific Description of Program Curricula

- **Bachelor of Science in Information Systems (BSIS)**
  - The Information Systems curriculum encompasses introductory and professional courses to cover the various information systems functional areas
  - In addition, the curriculum shall include business enterprise domain courses
  - 7 IS Functional Areas are enumerated in the PSG

# Information Systems Knowledge Areas

1. Fundamentals of IS
2. Professional Issues in Information Systems
3. IT Infrastructure and Network Technologies
4. Systems Analysis, Design and Development
5. Enterprise Architectures
6. IS Project Management
7. IS Strategy, Management and Acquisition

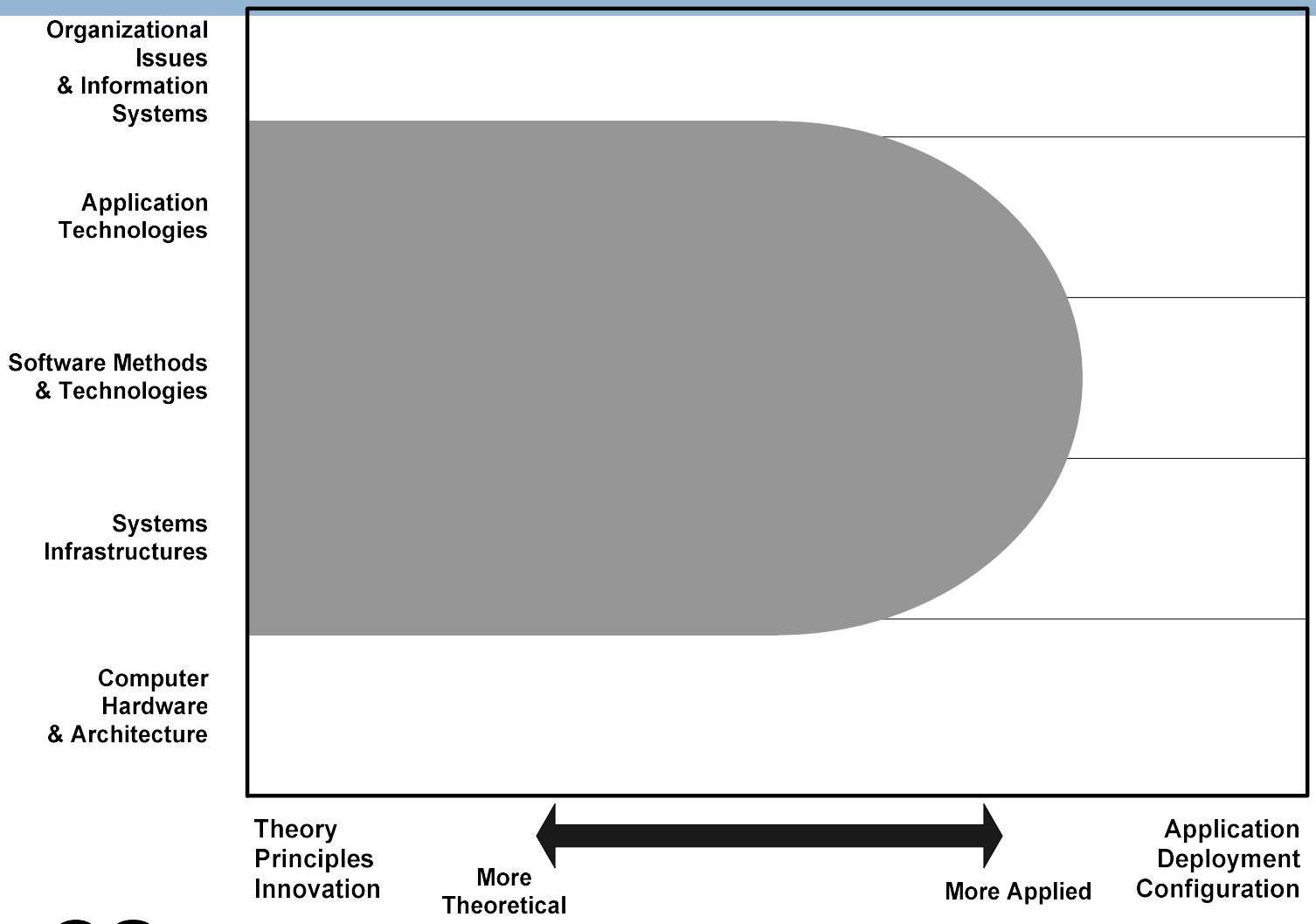
# Section 8.2 Specific Description of Program Curricula

- **Bachelor of Science in Computer Science (BSCS)**
  - The Computer Science curriculum includes foundation and professional courses that cover theory, algorithms, software design and development, and new developments in computing.
  - The curriculum should include courses to cover Knowledge Areas recommended in ACM Computer Science Curricula 2013 (enumerated in PSG)
  - 11 Knowledge Areas have been specified

# Computer Science Knowledge Areas

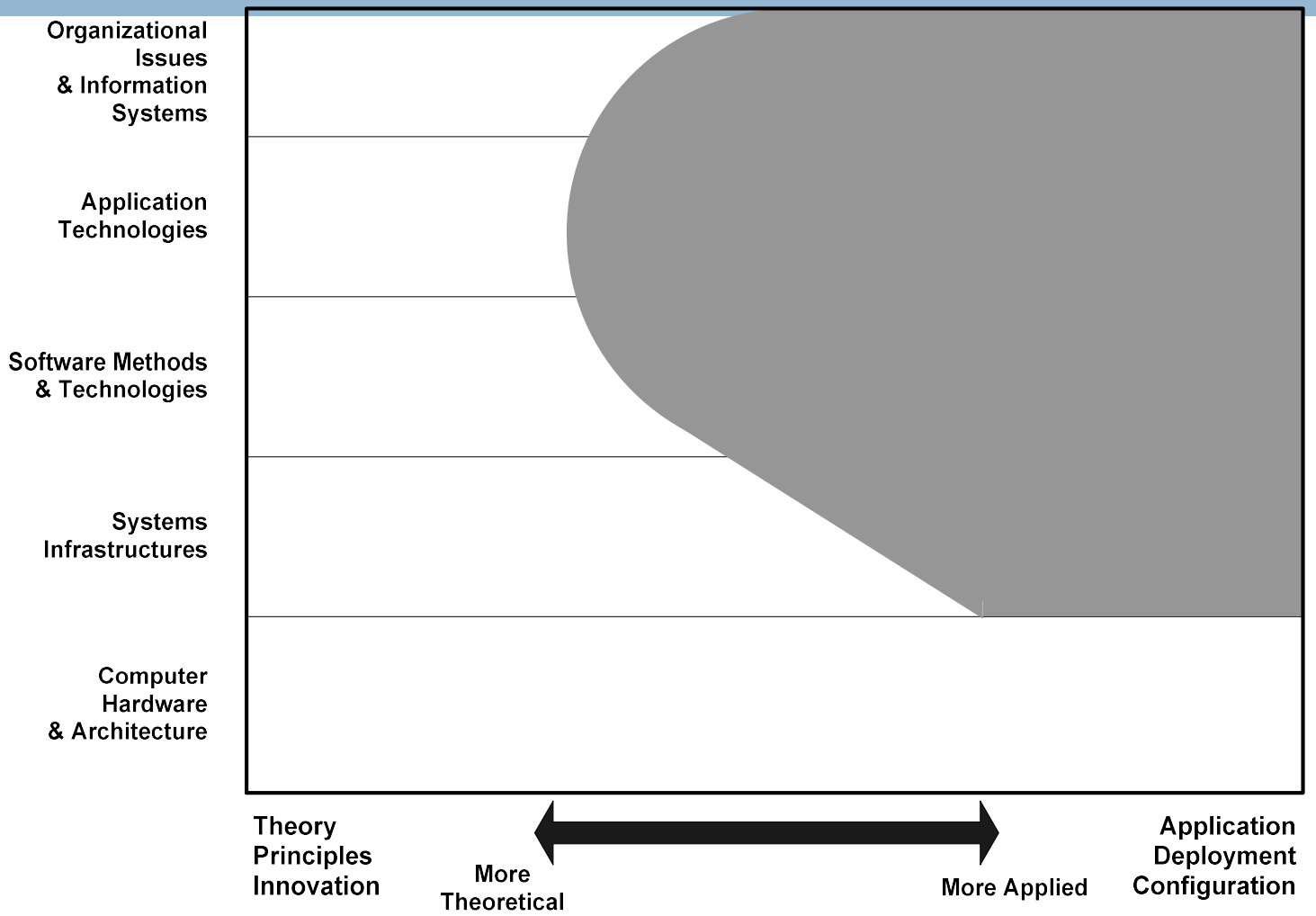
1. Algorithms and Complexity
2. Architecture and Organization
3. Discrete Structures
4. Human Computer interaction
5. Information Assurance and Security
6. Networks and Communications
7. Operating Systems
8. Programming Languages (Design and Implementation)
9. Software Development Fundamentals
10. Software Engineering
11. Social Issues and Professional Practice

# Computer Science



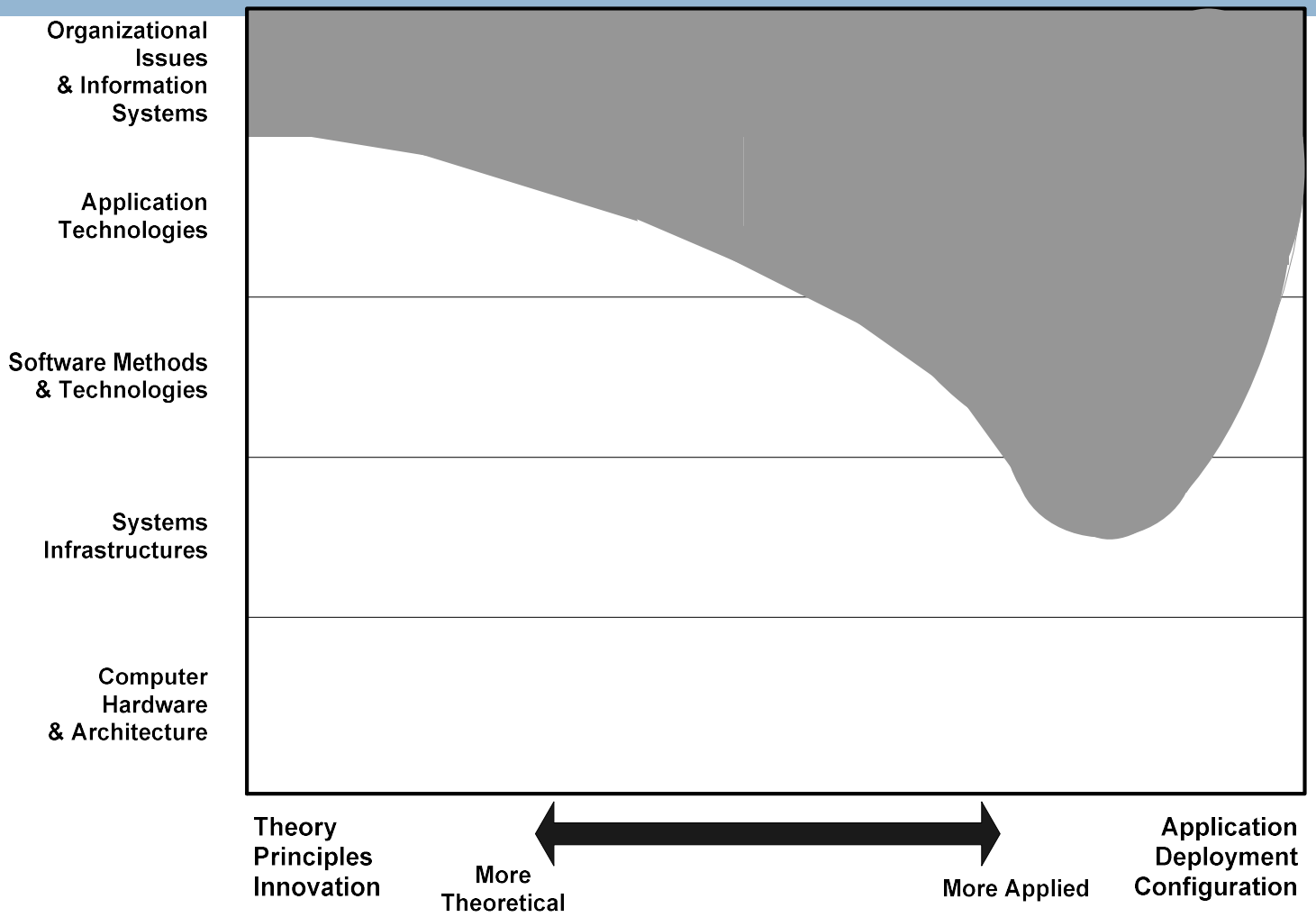

**CS**

# Information Technology




IT

# Information Systems




**IS**

# Bachelor of Science in Computer Science (BSCS)

- **Primary Job Roles**
- Software Engineer
- Systems Software Developer
- Research and Development computing professional
- Applications Software Developer
- Computer Programmer

# Bachelor of Science in Information Systems (BSIS)

- **Primary Job Roles**
- Organizational Process Analyst
- Data Analyst
- Solutions Specialist
- Systems Analyst
- IS Project Management Staff

# Bachelor of Science in Information Technology (BSIT)

- **Primary Job Roles**
- Web and Applications Developer
- Junior Database Administrator
- Systems Administrator
- Network Engineer
- Junior Information Security Administrator
- Systems Integration Trainee
- IT Audit Assistant
- Technical Support Specialist

# BSIS Recommended Professional Electives

| | |
|---|---|
| ADV01 | Enterprise Systems |
| ADV02 | Human Computer Interaction |
| ADV03 | IT Audit and Controls |
| ADV04 | IS Innovations and New Technologies |
| ADV05 | IT Security and Management 1 |
| ADV06 | IT Service Management |
| ADV07 | IS Project Management 2 |
| ADV08 | Data Mining |
| ADV09 | Business Intelligence |

# BSIT Recommended Professional Electives

| | |
|---|---|
| IPT102 | Integrative Programming Technologies 2 |
| PT101 | Platform Technologies 3 |
| WS101 | Web Systems and Technologies |
| PF101 | Object-Oriented Programming |
| SIA102 | Systems Integration and Architecture 2 |
| HCI102 | Human Computer Interaction 2 |

# BSCS Recommended Professional Electives

| | |
|---|---|
| CN101 | Computational Science |
| GV101 | Graphics and Visual Computing |
| PD101 | Parallel and Distributed Computing |
| IS101 | Intelligent Systems |
| SF101 | System Fundamentals |

# Recommended Professional/ Specialization Tracks (18) (post K12)

- Business Analytics
  - Fundamentals of Business Analytics
  - Enterprise Data Management
  - Analytics Modeling
  - Analytics Technique and Tools
  - Data Mining
  - Internship
- Service Management
  - Fundamentals of Business Outsourcing 1
  - Fundamentals of Business Outsourcing 2
  - Business Communication
  - Service Culture
  - Principles of Systems Thinking
  - Practicum/ OJT

# Recommended Professional/ Specialization Tracks (18) (2)

- Information Security and Risk Management
  - IT Security and Management 2
  - IT Audit and Controls
  - Internship

- Data Mining
  - Advance Statistics
  - Data Preparation
  - Logistic Regression
  - Regression Analysis
  - Data Mining Methodology

# A Peek at CMO 20 2013 (Gen Ed)

- 36 courses
  - 24 units for core
  - 3 units for Rizal
  - 9 units for Electives

# A Peek at CMO 20 2013 (Gen Ed)

- Core

| |
|---|
| Understanding the Self (New) |
| Readings in Philippine History (History) |
| The Contemporary World (New) |
| Mathematics in the Modern World (Math) |
| Purposive Communication (English 1) |
| Art Appreciation (Humanities, English 2) |
| Science and Technology (New) |
| Ethics (New) |

# A Peek at CMO 20 2013 (Gen Ed)

- Gen Ed Electives Domain Areas (intersect any 2)
  - Social Sciences and Philosophy
  - Mathematics, Science and Technology
  - Arts and Humanities
- Sample Gen ED Electives
  - Living in the IT Era
  - Reading Visual Arts
  - Technopreneurship

# Sample BSIT Curriculum

# Sample BSIT Curriculum

**FIRST YEAR** **FIRST SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | COMP1 | Introduction to Computing | 3 |
| | PROG1 | Computer Programming 1 | 3 |
| | REED 1 | Revelation and Faith | (3) |
| | PE 1 | Physical Fitness | 2 |
| | GE1 | Mathematics in the Modern World | 3 |
| | GE2 | Understanding the Self | 3 |
| | Math Prep | Pre-Calculus for Non-STEM (Algebra and Trigo) | (3) |
| | FILIPINO 1 | Komunikasyon sa Akademikong Filipino | 3 |
| | ROTC/CWTS 11 | Basic Army Science/Civic Welfare Training Service | 3 |
| | GUIDANCE 1 | Adjustment to College Life Phase 1 | 0 |
| | | | 20 |

# Sample BSIT Curriculum

**FIRST YEAR** **SECOND SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | DISCRETE 1 | Discrete Structures 1 | 3 |
| | PROG2 | Computer Programming 2 | 3 |
| | WEB | Web Development | 3 |
| | GE3 | Readings in Philippine History | 3 |
| | GE4 | Purposive Communication | 3 |
| | REED 2 | Christology | (3) |
| | PE 2 | Rhythmic Activities | 2 |
| | FILIPINO 2 | Pagbasa at Pagsulat tungo sa Pananaliksik | 3 |
| | ROTC/CWTS/NSTP 12 | Reserved Officer Training Corps/Civic Welfare Training Service | 3 |
| | GUIDANCE 2 | Adjustment to College Life Phase 2 | 0 |
| | | | 23 |

# Sample BSIT Curriculum

**SECOND YEAR** **FIRST SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | DATASTRUCT 1 | Data Structures and Algorithms | 3 |
| | DIGITAL 1 | Digital Logic Design | 3 |
| | PT | Platform Technologies | 3 |
| | ACCTG A | Fundamentals of Accounting | 3 |
| | GE5 | The Contemporary World | 3 |
| | GE6 | Art Appreciation | 3 |
| | GEEL1 | Living in the IT Era | 3 |
| | PE 3 | Individual/Dual Sports/Games | 2 |
| | | | 23 |

# Sample BSIT Curriculum

**SECOND YEAR** **SECOND SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | OOP1 | Object Oriented Programming | 3 |
| | IM 1 | Information Management | 3 |
| | NET 1 | Data Communications and Networking 1 | 3 |
| | MATH 7 | Statistics and Probabilities | 3 |
| | GE7 | Science and Technology | 3 |
| | GEEL2 | Reading Visual Arts | 3 |
| | PE 4 | Team Sports/Games | 2 |
| | | | 20 |

# Sample BSIT Curriculum

**SECOND YEAR** **SUMMER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | SP | Social Issues and Professional Practice | 3 |
| | QM | Quantitative Methods | 3 |
| | HCI | Human Computer Interaction | 3 |
| | | | 9 |

# Sample BSIT Curriculum

**THIRD YEAR** **FIRST SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | IM 2 | Information Management 2 | 3 |
| | NET 2 | Networking 2 | 3 |
| | IT ELEC 1 | IT Elective 1 | 3 |
| | APPSDEV 1 | Applications Development 1 | 3 |
| | SAD | System Analysis and Design | 3 |
| | OS | Operating Systems | 3 |
| | IT PROF EL 1 | IT Professional Elective 1 | 3 |
| | IT PROF EL 2 | IT Professional Elective 2 | 3 |
| | | | 24 |

# Sample BSIT Curriculum

**THIRD YEAR** **SECOND SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | IAS1 | Information Assurance and Security | 3 |
| | IT ELEC 2 | IT Elective 2 | 3 |
| | SIA 1 | System Integration and Architecture 1 | 3 |
| | RESEARCH 1 | Methods of Research in Computing | 3 |
| | IM 3 | Fundamentals of Data Warehousing and Data Mining | 3 |
| | IT PROF EL 3 | IT Professional Elective 3 | 3 |
| | IT PROF EL 3 | IT Professional Elective 3 | 3 |
| | TECHNO | Technopreneurship | 3 |
| | | | 24 |

# Sample BSIT Curriculum

**THIRD YEAR** **SUMMER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | IPT 1 | Integrative Programming and Technologies | 3 |
| | IT ELEC 3 | IT Elective 3 | 3 |
| | CAPSTONE 1 | Capstone Project 1 | 3 |
| | | | 9 |

# Sample BSIT Curriculum

**FOURTH YEAR** **FIRST SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | SA | Systems Administration and Maintenance | 3 |
| | CAPSTONE 2 | Capstone Project 2 | 3 |
| | ITREVIEW | Certification Exam Review | 3 |
| | RIZAL | Life, Works and Writings of Dr. Jose Rizal | 3 |
| | IT PROF EL 4 | IT Professional Elective 4 | 3 |
| | | | 15 |

# Sample BSIT Curriculum

**FOURTH YEAR** **SECOND SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | PRAC | Practicum | 6 |
| | SEMTOUR | Seminars and Tours | 3 |
| | | | **9** |

# Sample BSIS Curriculum

# Sample BSIS Curriculum

**FIRST YEAR** **FIRST SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | COMP 1 | Introduction to Computing | 3 |
| | PROG1 | Computer Programming 1 | 3 |
| | GE1 | Mathematics in the Modern World | 3 |
| | GE2 | Understanding the Self | 3 |
| | Math Prep | Pre-Calculus for Non-STEM (Algebra and Trigo) | (3) |
| | REED 1 | Revelation and Faith | (3) |
| | PE 1 | Physical Fitness | 2 |
| | ROTC/CWTS/NSTP 11 | Reserved Officer Training Corps/Civic Welfare Training Service | 3 |
| | FILIPINO 1 | Komunikasyon sa Akademikong Filipino | 3 |
| | GUIDANCE 1 | Adjustment to College Life Phase 1 | 0 |
| | | | 20 |

# Sample BSIS Curriculum

**FIRST YEAR** **SECOND SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | IS | Fundamentals of Information Systems | 3 |
| | PROG2 | Computer Programming 2 | 3 |
| | WEB | Web Development | 3 |
| | GE3 | Readings in Philippine History | 3 |
| | GE4 | Purposive Communication | 3 |
| | REED 2 | Christology | (3) |
| | PE 2 | Rhythmic Activities | 2 |
| | FILIPINO 2 | Pagbasa at Pagsulat tungo sa Pananaliksik | 3 |
| | ROTC/CWTS/NSTP 12 | Reserved Officer Training Corps/Civic Welfare Training Service | 3 |
| | GUIDANCE 2 | Adjustment to College Life Phase 2 | 0 |
| | | | 23 |

# Sample BSIS Curriculum

**SECOND YEAR** **FIRST SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | DATASTRUCT 1 | Data Structures and Algorithms | 3 |
| | PT | Platform Technologies | 3 |
| | DM 1 | Organization and Management Concepts | 3 |
| | ACCTG A | Fundamentals of Accounting | 3 |
| | GE5 | The Contemporary World | 3 |
| | GE6 | Art Appreciation | 3 |
| | GEEL1 | Living in the IT Era | 3 |
| | PE 3 | Individual/Dual Sports/Games | 2 |
| | | | 23 |

# Sample BSIS Curriculum

**SECOND YEAR** **SECOND SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | HCI | Human Computer Interaction | 3 |
| | DM 2 | Financial Management | 3 |
| | IM 1 | Information Management 1 | 3 |
| | NET 1 | Data Communications and Networking 1 | 3 |
| | MATH 7 | Statistics and Probabilities | 3 |
| | GE7 | Science and Technology | 3 |
| | GEEL2 | Reading Visual Arts | 3 |
| | PE 4 | Team Sports/Games | 2 |
| | | | 23 |

# Sample BSIS Curriculum

**THIRD YEAR** **FIRST SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | DM 3 | Business Process Management | 3 |
| | SAD | System Analysis and Design | 3 |
| | QM | Quantitative Methods | 3 |
| | IS ELEC 1 | IS Elective 1 | 3 |
| | APPSDEV 1 | Application Development and Emerging Technologies 1 | 3 |
| | IS PROF EL 1 | IS Professional Elective 1 | 3 |
| | IS PROF EL 2 | IS Professional Elective 2 | 3 |
| | | | 21 |

# Sample BSIS Curriculum

**THIRD YEAR** **SECOND SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | CAPSTONE 1 | Capstone Project 1 | 3 |
| | PROJMGT 1 | IS Project Management1 | 3 |
| | IS ELEC 2 | IS Elective 2 | 3 |
| | APPSDEV 2 | Application Development and Emerging Technologies 2 | 3 |
| | RESEARCH | Methods of Research in Computing | 3 |
| | IS PROF EL 3 | IS Professional Elective 3 | 3 |
| | GE 8 | Ethics | 3 |
| | | | 21 |

# Sample BSIS Curriculum

**THIRD YEAR** **SUMMER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | STRATMGT | IS Strategy, Management and Acquisition | 3 |
| | IS ELEC 3 | IS Elective 3 | 3 |
| | SP | Social Issues and Professional Practice | 3 |
| | | | 9 |

# Sample BSIS Curriculum

**FOURTH YEAR** **FIRST SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | PROJMGT 2 | IS Project Management 2 | 3 |
| | CAPSTONE 2 | Capstone Project 2 | 3 |
| | IS ELEC 4 | IS Elective 4 | 3 |
| | IS PROF EL 4 | IS Professional Elective 4 | 3 |
| | TECHNO | Technopreneurship | 3 |
| | RIZAL | Life, Works and Writings of Dr. Jose Rizal | 3 |
| | FL | Foreign Language | 3 |
| | | | 21 |

# Sample BSIS Curriculum

**FOURTH YEAR** **SECOND SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | PRAC | Practicum | 6 |
| | SEMTOUR | Seminars and Tours | 3 |
| | | | 9 |

# Sample BSCS Curriculum

# Sample BSCS Curriculum

**FIRST YEAR** **FIRST SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | COMP1 | Introduction to Computing | 3 |
| | PROG1 | Computer Programming 1 | 3 |
| | GE1 | Mathematics in the Modern World | 3 |
| | GE2 | Understanding the Self | 3 |
| | Math Prep | Pre-Calculus for Non-STEM (Algebra and Trigo) | (3) |
| | REED 1 | Revelation and Faith | (3) |
| | PE 1 | Physical Fitness | 2 |
| | ROTC/CWTS/NSTP 11 | Reserved Officer Training Corps/Civic Welfare Training Service | 3 |
| | FILIPINO 1 | Komunikasyon sa Akademikong Filipino | 3 |
| | GUIDANCE 1 | Adjustment to College Life Phase 1 | 0 |
| | | | 20 |

# Sample BSCS Curriculum

**FIRST YEAR** **SECOND SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | DISCRETE 1 | Discrete Structures 1 | 3 |
| | PROG2 | Computer Programming 2 | 3 |
| | WEB 1 | Web Development | 3 |
| | GE3 | Readings in Philippine History | 3 |
| | GE4 | Purposive Communication | 3 |
| | REED 2 | Christology | (3) |
| | PE 2 | Rhythmic Activities | 2 |
| | FILIPINO 2 | Pagbasa at Pagsulat tungo sa Pananaliksik | 3 |
| | ROTC/CWTS/NSTP 12 | Reserved Officer Training Corps/Civic Welfare Training Service | 3 |
| | GUIDANCE 2 | Adjustment to College Life Phase 2 | 0 |
| | | | 23 |

# Sample BSCS Curriculum

**SECOND YEAR** **FIRST SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | DISCRETE 2 | Discrete Structures 2 | 3 |
| | DATASTRUCT 1 | Data Structures and Algorithms | 3 |
| | DIGITAL 1 | Digital Logic Design | 3 |
| | ACCTG A | Fundamentals of Accounting | 3 |
| | GE5 | The Contemporary World | 3 |
| | GE6 | Art Appreciation | 3 |
| | GEEL1 | Living in the IT Era | 3 |
| | PE 3 | Individual/Dual Sports/Games | 2 |
| | | | 23 |

# Sample BSCS Curriculum

**SECOND YEAR** **SECOND SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | ALGO 1 | Analysis and Design of Algorithms | 3 |
| | OOP1 | Object Oriented Programming | 3 |
| | IM 1 | Information Management | 3 |
| | COMP-ORG 1 | Computer Organization and Architecture | 3 |
| | MATH 7 | Statistics and Probabilities | 3 |
| | GE7 | Science and Technology | 3 |
| | GEEL2 | Reading Visual Arts | 3 |
| | PE 4 | Team Sports/Games | 2 |
| | | | 23 |

# Sample BSCS Curriculum

**SECOND YEAR** **SUMMER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | QM | Quantitative Methods | 3 |
| | SP | Social Issues and Professional Practice | 3 |
| | HCI | Human Computer Interaction | 3 |
| | | | 9 |

# Sample BSCS Curriculum

**THIRD YEAR** **FIRST SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | AUTOMATA 1 | Automata Theory and Formal Languages | 3 |
| | NET 1 | Data Communications and Networking | 3 |
| | CS ELEC 1 | Intelligent Systems | 3 |
| | SOFTENG1 | Software Engineering 1 | 3 |
| | APPSDEV 1 | Applications Development 1 | 3 |
| | OS | Operating Systems | 3 |
| | CS PROF EL 1 | CS Professional Elective 1 | 3 |
| | CS PROF EL 2 | CS Professional Elective 2 | 3 |
| | | | 24 |

# Sample BSCS Curriculum

**THIRD YEAR** **SECOND SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | PL1 | Programming Languages | 3 |
| | SOFTENG 2 | Software Engineering 2 | 3 |
| | CS ELEC 2 | Graphics and Visual Computing | 3 |
| | APPSDEV 2 | Applications Development 2 | 3 |
| | RESEARCH 1 | Methods of Research in Computing | 3 |
| | CS PROF EL 3 | CS Professional Elective 3 | 3 |
| | TECHNO | Technopreneurship | 3 |
| | GE 8 | Ethics | 3 |
| | | | 24 |

# Sample BSCS Curriculum

**THIRD YEAR** **SUMMER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | **PRAC 1** | **Practicum** | **3** |
| | | | 3 |

# Sample BSCS Curriculum

**FOURTH YEAR** **FIRST SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | CS ELEC 3 | Natural Language Processing | 3 |
| | THESIS 1 | Thesis Writing 1 | 3 |
| | ITREVIEW | Certification Exam Review | 3 |
| | RIZAL 1 | Life, Works and Writings of Dr. Jose Rizal | 3 |
| | CS PROF EL 4 | CS Professional Elective 4 | 3 |
| | | | 15 |

# Sample BSCS Curriculum

**FOURTH YEAR** **SECOND SEMESTER**

| FG | COURSE NO. | DESCRIPTION | UNITS |
|---|---|---|---|
| | **IAS1** | **Information Assurance and Security** | **3** |
| | **THESIS 2** | **Thesis Writing 2** | **3** |
| | **SEMTOUR** | **Seminars and Tours** | **3** |
| | | | 9 |

# End