



Republic of the Philippines
NORTHWESTERN MINDANAO STATE COLLEGE
OF SCIENCE AND TECHNOLOGY



School of Information and Communication Technology

Bachelor of Science in Information Technology

Based on CMO NO. 25 Series of 2015

| SUBJECT CODE | DESCRIPTIVE TITLE | UNIT | | HOUR | | CREDIT | PRE-REQUISITE | Grades |
|----------------------------|--|-----------|----------|-----------|-----------|-----------|---------------|--------|
| | | LEC | LAB | LEC | LAB | | | |
| 1ST YEAR : FIRST SEMESTER | | | | | | | | |
| CC101 | Introduction to Computing | 3 | 0 | 3 | 3 | 3 | | |
| MMW | Computer Programming I | 2 | 1 | 2 | 3 | 3 | | |
| | Mathematics in the Modern World | 3 | 0 | 3 | 0 | 3 | | |
| ENVSCI | Environmental Science | 3 | 0 | 3 | 0 | 3 | | |
| P.E.1 | Physical Activities Through Health - Fitness 1 | 2 | 0 | 2 | 0 | 2 | | |
| JEEP1 | JEEP Start | 2 | 1 | 2 | 3 | 3 | | |
| SOCSCI 11 | Understanding the Self | 3 | 0 | 3 | 0 | 3 | | |
| NSTP1 | MS/CWTS/LES/ROTC | 0 | 0 | 0 | 0 | 0 | | |
| | TOTAL | 18 | 2 | 18 | 9 | 20 | | |
| 1ST YEAR : SECOND SEMESTER | | | | | | | | |
| ITF1 | Information Technology Fundamentals | 2 | 1 | 2 | 3 | 3 | CC101 | |
| CC103 | Computer Programming 2 | 2 | 1 | 2 | 3 | 3 | CC102 | |
| STS | Science and Technology and Society | 3 | 0 | 3 | 0 | 3 | | |
| PurComm | Purposive Communication | 3 | 0 | 3 | 0 | 3 | | |
| JEEP2 | JEEP Accelerate | 3 | 0 | 0 | 3 | 3 | JEEP1 | |
| CC104 | Information Management 1 | 2 | 1 | 2 | 3 | 3 | CC101 | |
| P.E.2 | Physical Activities Through Health-Fitness 2 | 2 | 0 | 2 | 0 | 2 | P.E.1 | |
| NSTP2 | CWTS/ROTC | 0 | 0 | 0 | 0 | 0 | NSTP 1 | |
| | TOTAL | 17 | 3 | 14 | 12 | 20 | | |
| 2ND YEAR : FIRST SEMESTER | | | | | | | | |
| CC105 | Data Structures and Algorithms | 2 | 1 | 2 | 3 | 3 | CC103 | |
| PT101 | Platform Technologies 1 | 2 | 1 | 2 | 3 | 3 | CC103 | |
| CONWORLD | The Contemporary World | 3 | 0 | 3 | 0 | 3 | | |
| WEB | Web Systems and Technologies | 2 | 1 | 2 | 3 | 3 | CC102 | |
| P.E.3 | Physical Activities Through Health - Fitness 3 | 2 | 0 | 2 | 0 | 2 | P.E.2 | |
| CC106 | Fundamentals of Database Systems | 2 | 1 | 2 | 3 | 3 | CC104 | |
| | TOTAL | 13 | 4 | 13 | 12 | 17 | | |
| 2ND YEAR : SECOND SEMESTER | | | | | | | | |
| CC107 | Advanced Database Systems | 2 | 1 | 2 | 3 | 3 | CC106 | |
| CC108 | Object-Oriented Programming | 2 | 1 | 2 | 3 | 3 | CC103 | |
| CC109 | Data Communication and Networking 1 | 2 | 1 | 2 | 3 | 3 | PT101 | |
| HUM11 | Art Appreciation | 3 | 0 | 3 | 0 | 3 | | |
| Ethics | Ethics | 3 | 0 | 3 | 0 | 3 | | |
| RVA | Reading Visual Arts | 3 | 0 | 3 | 0 | 3 | | |
| P.E.4 | Physical Activities Through Health - Fitness 4 | 2 | 0 | 2 | 0 | 2 | | |
| | TOTAL | 17 | 3 | 17 | 9 | 20 | P.E.3 | |
| 3RD YEAR : FIRST SEMESTER | | | | | | | | |
| CC110 | Data Communication and Networking 2 | 2 | 1 | 2 | 3 | 3 | CC109 | |
| ITELEC1 | IT Elective 1 (Research Methods in Information Technology) | 2 | 1 | 2 | 3 | 3 | | |
| CC111 | Application Development and Emerging Technologies | 2 | 1 | 2 | 3 | 3 | CC108 | |
| Rizal | The Life and Works of Jose Rizal | 3 | 0 | 3 | 0 | 3 | | |
| HIST11 | Reading in Philippine History | 3 | 0 | 3 | 0 | 3 | | |
| ITPROFEL1 | IT Professional Elective 1 | 2 | 1 | 2 | 3 | 3 | | |
| SP101 | Social and Professional Issues | 3 | 0 | 0 | 0 | 3 | | |
| | TOTAL | 17 | 4 | 14 | 12 | 21 | | |
| 3RD YEAR : SECOND SEMESTER | | | | | | | | |
| CC112 | Information Assurance and Security 1 | 2 | 1 | 2 | 3 | 3 | CC106 | |
| CC113 | Operating Systems | 2 | 1 | 2 | 3 | 3 | CC101, CC105 | |
| ITELEC2 | IT Elective 2 (Advanced Statistics) | 2 | 1 | 2 | 3 | 3 | ITELEC1 | |
| SIA1 | Systems Integration and Architecture 1 | 2 | 1 | 2 | 3 | 3 | CC111 | |
| ENTREP11 | The Entrepreneurial Mind | 3 | 0 | 3 | 0 | 3 | | |

| | | | | | | | | |
|-----------------------------------|--|-----------|----------|-----------|-----------|-----------|---|--|
| CC114 | Fundamentals of Data Warehousing and Data Mining | 2 | 1 | 2 | 3 | 3 | CC107 | |
| IP1 | Integrative Programming and Technologies 1 | 2 | 1 | 2 | 3 | 3 | | |
| | TOTAL | 15 | 6 | 15 | 18 | 21 | | |
| SUMMER | | | | | | | | |
| ITELEC3 | IT Elective 3 (Business Intelligence) | 2 | 1 | 2 | 3 | 3 | ITELEC2 | |
| CAP101 | Capstone Project I | 2 | 1 | 2 | 3 | 3 | 4th year standing | |
| | TOTAL | 4 | 2 | 4 | 6 | 6 | | |
| 4TH YEAR : FIRST SEMESTER | | | | | | | | |
| CC115 | Systems Administration and Maintenance | 2 | 1 | 2 | 3 | 3 | CC114 | |
| ITPROFEL2 | IT Professional Elective 2 | 2 | 1 | 2 | 3 | 3 | ITPROFEL1 | |
| ITPROFEL3 | IT Professional Elective 3 | 2 | 1 | 2 | 3 | 3 | ITPROFEL2 | |
| HCI1 | Human Computer Interaction 1 | 2 | 1 | 2 | 3 | 3 | | |
| CAP102 | Capstone Project 2 | 2 | 1 | 2 | 3 | 3 | CAP101 | |
| | TOTAL | 10 | 5 | 10 | 15 | 15 | | |
| 4TH YEAR : SECOND SEMESTER | | | | | | | | |
| SEMTOUR | Seminar and Tours | 1 | 0 | 1 | 0 | 1 | 4th year standing | |
| PRAC101 | Practicum (486 Hours) | 0 | 0 | 0 | 0 | 6 | Completed all Major Subjects until 3rd year Level | |
| | TOTAL | 1 | 0 | 1 | 0 | 7 | | |

Recommended Electives

Advanced Data Mining
 Advanced Statistics
 Business Intelligence
 Distributed Database
 Event Driven Programming
 Human Computer Interaction 2
 Information Assurance and Security 2
 Integrative Programming Technologies 2
 Platform Technologies 2
 Research Methods in Information Technology
 Systems Integration and Architecture 2
 Advance Systems Integration and Architecture

Note: Probationary status students are not allowed to enroll those subjects in red color