# CURRICULUM

## Bachelor of Science in Information Technology

### First Year – First Semester

| Course Code | Course Title | Lec Hours | Lab Hours | Total Units | Pre-requisites | Co-requisites |
|---|---|---|---|---|---|---|
| GE US | Understanding the Self | 3 | | 3 | | |
| GE PC | Purposive Communication | 3 | | 3 | | |
| GE MMW | Mathematics in the Modern World | 3 | | 3 | | |
| CC 111 | Introduction to Computing | 2 | 3 | 3 | | |
| CC 112 | Fundamentals of Programming | 2 | 3 | 3 | | |
| PE 1 | PATHFit 1: Movement Competency Training | 2 | | 2 | | |
| NSTP 1 | CWTS/ROTC/LTS 1 | 3 | | 3 | | |
| | **Sub-total** | **18** | **6** | **20** | | |

### First Year – Second Semester

| Course Code | Course Title | Lec Hours | Lab Hours | Total Units | Pre-requisites | Co-requisites |
|---|---|---|---|---|---|---|
| GE RPH | Readings in the Philippine History | 3 | | 3 | | |
| CC 121 | Intermediate Programming 2 | 2 | 3 | 3 | CC 112 | |
| IT 122 | Computer Programming 1 | 2 | 3 | 3 | CC 112 | |
| IT 123 | Discrete Mathematics | 3 | | 3 | GE MMW | |
| IT 124 | Introduction to Human Computer Interaction | 3 | | 3 | CC 111 | |
| GE HM | Human Reproduction | 3 | | 3 | | |
| PE 2 | PATHFit 2: Exercise-based Fitness Activities | 2 | | 2 | PE 1 | |
| NSTP 2 | CWTS/ROTC/LTS 2 | 3 | | 3 | NSTP 1 | |
| | **Sub-total** | **21** | **6** | **23** | | |

### Second Year – First Semester

| Course Code | Course Title | Lec Hours | Lab Hours | Total Units | Pre-requisites | Co-requisites |
|---|---|---|---|---|---|---|
| GE AA | Art Appreciation | 3 | | 3 | | |
| GE CW | The Contemporary World | 3 | | 3 | | |
| IT 211 | Fundamentals of Database System 1 | 2 | 3 | 3 | CC 121 | |
| IT 212 | Computer Programming 2 | 2 | 3 | 3 | IT 122 | |
| IT 214 | Networking 1 | 2 | 3 | 3 | | |
| Elec 1 | Multimedia System | 2 | 3 | 3 | | |
| GEE TEM | The Entrepreneurial Mind | 3 | | 3 | | |
| PE 3 | PATHFit 3: Dance, Sports, Martial Arts, Group Exercise, Outdoor and Adventure Activities | 2 | | 2 | PE 2 | |
| | **Sub-total** | **19** | **12** | **23** | | |

## Second Year – Second Semester

| Course Code | Course Title | Lec Hours | Lab Hours | Total Units | Pre-requisites | Co-requisites |
|---|---|---|---|---|---|---|
| GE STS | Science, Technology and Society | 3 | | 3 | | |
| CC 221 | Database Systems 2 | 2 | 3 | 3 | IT 211 | |
| CC 222 | Data Structure and Algorithms | 2 | 3 | 3 | IT 212 | |
| IT 223 | Information Assurance and Security 1 | 3 | | 3 | IT 211, IT 212, IT 214 | |
| IT 224 | System Analysis and Design | 3 | | 3 | IT 211, IT 212 | |
| Free Elec 1 | Graphics, Design and Animation | 2 | 3 | 3 | Elec 1 | |
| PE 4 | PATHFit 4: Dance, Sports, Martial Arts, Group Exercise, Outdoor and Adventure Activities | 2 | | 2 | PE 3 | |
| | **Sub-total** | **17** | **9** | **20** | | |

## Third Year – First Semester

| Course Code | Course Title | Lec Hours | Lab Hours | Total Units | Pre-requisites | Co-requisites |
|---|---|---|---|---|---|---|
| Prof Elec 1 | Logic Design and Digital Computer Circuits | 2 | 3 | 3 | CC 111 | |
| Prof Elec 2 | Web Systems and Technologies | 2 | 3 | 3 | CC 221, Free Elec 1 | |
| GEE PPC | Philippine Popular Culture with IP Studies | 3 | | 3 | | |
| GE Ethics | Ethics | 3 | | 3 | | |
| IT 312 | Information Assurance and Security 2 | 2 | 3 | 3 | IT 223 | |
| IT 313 | Quantitative Methods | 3 | | 3 | Third Year Standing | Research |
| Research | Methods of Research | 3 | | | Third Year Standing | IT 313 |
| | **Sub-total** | **18** | **9** | **21** | | |

## Third Year – Second Semester

| Course Code | Course Title | Lec Hours | Lab Hours | Total Units | Pre-requisites | Co-requisites |
|---|---|---|---|---|---|---|
| IT 321 | Capstone Project and Research 1 | 2 | 3 | 3 | Research | |
| Free Elec 2 | Microcontrollers and Embedded Systems | 2 | 3 | 3 | Prof Elec 1 | |
| Elec 3 | Platform Technologies | 2 | 3 | 3 | Elec 2, IT 312 | CC 322 |
| CC 322 | Applications Development and Emerging Technologies | 2 | 3 | 3 | Third Year Standing | |
| IT 323 | Social and Professional issues | 3 | | 3 | GE Ethics | |
| | **Sub-total** | **11** | **12** | **15** | | |

## Fourth Year – First Semester

| Course Code | Course Title | Lec Hours | Lab Hours | Total Units | Pre-requisites | Co-requisites |
|---|---|---|---|---|---|---|
| IT 411 | Capstone Project and Research 2 | 2 | 3 | 3 | IT 321 | |
| GE Rizal | The Life and Works of Rizal | 3 | | 3 | | |
| Prof Elec 3 | Enterprise Resource Planning | 2 | 3 | 3 | Fourth Year Standing | |
| IT 412 | System Integration and Architecture 1 | 2 | 3 | 3 | Fourth Year Standing | |
| IT 413 | System Administration and Maintenance | 2 | 3 | 3 | Fourth Year Standing | |
| | **Sub-total** | **11** | **12** | **15** | | |

## Fourth Year – Second Semester

| Course Code | Course Title | Lec Hours | Lab Hours | Total Units | Pre-requisites | Co-requisites |
|---|---|---|---|---|---|---|
| **IT 421** | **Practicum** | **2** | **428** | **12** | **Passed all Courses** | |
| | **Sub-total** | **2** | **428** | **12** | | |
| | **Total** | **113** | **494** | **149** | | |