|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **BACHELOR OF SCIENCE IN COMPUTER SCIENCE** | | | | | | | | | |
| *(Curriculum applicable to students who entered as freshmen beginning school year 2010-2011)* | | | | | | | | | |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 1 | 1 | CS100 | INTRODUCTION TO COMPUTER SYSTEMS | 4.5 | - | 3.0 |  |  | CIT |
| 1 | 1 | ENG011 | ENGLISH FOR ACADEMIC STUDIES 1 | 3.0 | - | 2.0 |  |  | CAS |
| 1 | 1 | FIL011 | FILIPINO 1 | 3.0 | - | 2.0 |  |  | CAS |
| 1 | 1 | IT011L | I.T. FUNDAMENTALS 1 (LAB) | - | 3.0 | 1.0 |  |  | CIT |
| 1 | 1 | MATH011 | ALGEBRA | 4.5 | - | 3.0 |  |  | CAS |
| 1 | 1 | HUM011 | LOGIC REASONING WITH CRITICAL THINKING | 4.5 | - | 3.0 |  |  | CAS |
| 1 | 1 | CWTS011 | OVERVIEW OF THE NATIONAL SERVICE TRAINING PROGRAM | 3.0 | - | 2.0 |  |  | CSRO |
| 1 | 1 | PE021 | PHYSICAL EDUCATION 1: PHYSICAL FITNESS & GYMNASTICS | - | 2.5 | 1.5 |  |  | CAS |
| 1 | 1 | VE011 | VALUES EDUCATION 1 | 1.5 | - | 1.0 |  |  | CAS |
|  |  |  | **Total** | **24.0** | **5.5** | **18.5\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 1 | 2 | CS101P-1 | LOGIC FORMULATION, PROBLEM SOLVING AND ALGORITHMS 1 (PAIRED) | 3.0 | 4.5 | 3.0 |  |  | CIT |
| 1 | 2 | ENG012 | ENGLISH FOR ACADEMIC STUDIES 2 | 3.0 | - | 2.0 | ENG011 |  | CAS |
| 1 | 2 | FIL012 | FILIPINO 2 | 3.0 | - | 2.0 | FIL011 |  | CAS |
| 1 | 2 | IT012L | I.T. FUNDAMENTALS 2 (LAB) | - | 3.0 | 1.0 | IT011L |  | CIT |
| 1 | 2 | MATH012 | PLANE AND SPHERICAL TRIGONOMETRY | 4.5 | - | 3.0 | MATH011 |  | CAS |
| 1 | 2 | HUM012 | PHILOSOPHY OF THE HUMAN PERSON | 4.5 | - | 3.0 |  |  | CAS |
| 1 | 2 | CWTS012 | CIVIC WELFARE TRAINING COURSE - I | 3.0 | - | 2.0 | CWTS011 |  | CSRO |
| 1 | 2 | PE022 | PHYSICAL EDUCATION 2: DANCE & MARTIAL ARTS | - | 2.5 | 1.5 |  |  | CAS |
|  |  |  | **Total** | **21.0** | **10.0** | **17.5\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 1 | 3 | CHM015 | GENERAL CHEMISTRY 1 | 4.5 | - | 3.0 |  |  | CAS |
| 1 | 3 | CHM015 | GENERAL CHEMISTRY 1 LABORATORY | - | 3.0 | 1.0 |  | CHM015 | CAS |
| 1 | 3 | CS101P-2 | LOGIC FORMULATION, PROBLEM SOLVING AND ALGORITHMS 2 (PAIRED) | 3.0 | 4.5 | 3.0 | CS101P-1 |  | CIT |
| 1 | 3 | ENG013 | ENGLISH FOR ACADEMIC STUDIES 3 | 3.0 | - | 2.0 | ENG012 |  | CAS |
| 1 | 3 | FIL013 | FILIPINO 3 | 3.0 | - | 2.0 | FIL012 |  | CAS |
| 1 | 3 | IT013L | I.T. FUNDAMENTALS 3 (LAB) | - | 3.0 | 1.0 | IT012L |  | CIT |
| 1 | 3 | MATH013 | ANALYTIC GEOMETRY | 4.5 | - | 3.0 | MATH012 |  | CAS |
| 1 | 3 | CWTS013 | CIVIC WELFARE TRAINING COURSE - II | 3.0 | - | 2.0 | CWTS012 |  | CSRO |
| 1 | 3 | PE023 | PHYSICAL EDUCATION 3: INDIVIDUAL/DUAL SPORTS | - | 2.5 | 1.5 |  |  | CAS |
|  |  |  | **Total** | **21.0** | **13.0** | **18.5\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 2 | 1 | CS102 | DATA STRUCTURES AND FILE ORGANIZATION | 4.5 | - | 3.0 | CS101P-2 |  | CIT |
| 2 | 1 | IT111P | OOP 1 - CONCEPTS IN OBJECT ORIENTED PROGRAMMING (PAIRED) | 3.0 | 4.5 | 3.0 | CS101P-2 |  | CIT |
| 2 | 1 | MATH014 | SOLID MENSURATION | 3.0 | - | 2.0 | MATH012 |  | CAS |
| 2 | 1 | SSO15 | POLITICS, GOVERNANCE & THE 1987 PHILIPPINE CONSTITUTION | 4.5 | - | 3.0 |  |  | CAS |
| 2 | 1 | HUM013 | LITERATURE & CREATIVE ARTS | 4.5 | - | 3.0 |  |  | CAS |
| 2 | 1 | PE024 | PHYSICAL EDUCATION 4: ADVANCED INDIVIDUAL/DUAL SPORTS | - | 2.5 | 1.5 | PE023 |  | CAS |
|  |  |  | **Total** | **19.5** | **7.0** | **15.5\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 2 | 2 | BIO011 | GENERAL BIOLOGY | 4.5 | - | 3.0 |  |  | CAS |
| 2 | 2 | CS103 | SYSTEMS ANALYSIS AND DESIGN 1 | 4.5 | - | 3.0 | CS102 |  | CIT |
| 2 | 2 | IT112P-1 | OOP 2 - PROGRAMMING WITH WINDOWS FORMS 1 (PAIRED) | 3.0 | 4.5 | 3.0 | IT111P |  | CIT |
| 2 | 2 | MATH021 | CALCULUS 1 | 4.5 | - | 3.0 | MATH012 |  | CAS |
| 2 | 2 | SS018 | CIVILIZATION & DEVELOPMENT IN ASIA | 4.5 | - | 3.0 |  |  | CAS |
| 2 | 2 | PE025 | PHYSICAL EDUCATION 5: TEAM SPORTS | - | 2.5 | 1.5 |  |  | CAS |
| 2 | 2 | VE012 | VALUES EDUCATION 2 | 1.5 | - | 1.0 | VE011 |  | CAS |
|  |  |  | **Total** | **22.5** | **7.0** | **17.5\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 2 | 3 | CS105P | INTRODUCTION TO RELATIONAL DATA BASE MANAGEMENT (PAIRED) | 3.0 | 4.5 | 3.0 | IT112P-1 |  | CIT |
| 2 | 3 | CS120 | STRUCTURE OF PROGRAMMING LANGUAGES | 4.5 | - | 3.0 | CS102 |  | CIT |
| 2 | 3 | IT112P-2 | OOP 2 - PROGRAMMING WITH WINDOWS FORMS 2 (PAIRED) | 3.0 | 4.5 | 3.0 | IT112P-1 |  | CIT |
| 2 | 3 | MATH022 | CALCULUS 2 | 4.5 | - | 3.0 | MATH021, MATH013 |  | CAS |
| 2 | 3 | PHY015 | GENERAL PHYSICS | 4.5 | - | 3.0 | MATH011 |  | CAS |
| 2 | 3 | PHY015L | GENERAL PHYSICS (LAB) | - | 3.0 | 1.0 | MATH011 | PHY015 | CAS |
| 2 | 3 | PE026 | PHYSICAL EDUCATION 6: ADVANCED TEAM SPORTS | - | 2.5 | 1.5 | PE025 |  | CAS |
|  |  |  | **Total** | **19.5** | **14.5** | **17.5\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 2 | 4 | SS013 | ECONOMICS, TAXATION & AGRARIAN REFORM | 4.5 | - | 3.0 |  |  | CAS |
| 2 | 4 | SS017 | SOCIETY, CULTURE & FAMILY LIFE | 4.5 | - | 3.0 |  |  | CAS |
|  |  |  | **Total** | **9.0** | **0.0** | **6.0\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 3 | 1 | CPE101-1P | DIGITAL DESIGN (PAIRED) | 3.0 | 4.5 | 3.0 |  |  | MITL |
| 3 | 1 | CS121 | DESIGN AND ANALYSIS OF ALGORITHMS | 4.5 | - | 3.0 | CS102 |  | CIT |
| 3 | 1 | ENG041L | ENGLISH FOR THE WORKPLACE 1 | - | 3.0 | 1.0 | ENG013 |  | CAS |
| 3 | 1 | IT113P | OOP 3 – PROGRAMMING USING ADO.NET (PAIRED) | 3.0 | 4.5 | 3.0 | IT112P-2 |  | CIT |
| 3 | 1 | MATH023 | CALCULUS 3 | 4.5 | - | 3.0 | MATH022 |  | CAS |
|  |  |  | **Total** | **15.0** | **12.0** | **13.0\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 3 | 2 | CPE131-1P | COMPUTER SYSTEMS ORGANIZATION AND ARCHITECTURE WITH ASSEMBLY LANGUAGE PROGRAMMING (PAIRED) | 3.0 | 4.5 | 3.0 |  |  | MITL |
| 3 | 2 | ENG042L | ENGLISH FOR THE WORKPLACE 2 | - | 3.0 | 1.0 | ENG041L |  | CAS |
| 3 | 2 | IT114P | OOP 4 - PROGRAMMING USING WEB (PAIRED) | 3.0 | 4.5 | 3.0 | IT112P-2 |  | CIT |
| 3 | 2 | IT130 | DATA COMMUNICATIONS AND INTRODUCTION TO NETWORKING TECHNOLOGIES | 4.5 | - | 3.0 |  |  | CIT |
| 3 | 2 | MATH110 | PROBABILITY AND STATISTICS | 4.5 | - | 3.0 | MATH011 |  | CAS |
| 3 | 2 | VE013 | VALUES EDUCATION 3 | 1.5 | - | 1.0 | VE011 |  | CAS |
|  |  |  | **Total** | **16.5** | **12.0** | **14.0\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 3 | 3 | IT115P | OOP 5 - REUSABILITY OF CODES AND LIBRARIES, WEB SERVICES, AND LOAD BALANCING (PAIRED) | 3.0 | 4.5 | 3.0 | IT114P |  | CIT |
| 3 | 3 | MATH140 | DISCRETE MATHEMATICS | 4.5 | - | 3.0 | MATH011 |  | CAS |
| 3 | 3 | RES110P | METHODS OF RESEARCH (PAIRED) | 3.0 | 4.5 | 3.0 | ENG042L, MATH110 |  | CIT |
| 3 | 3 |  | CS SPECIALIZATION ELECTIVE 1 | 3.0 | 4.5 | 3.0 |  |  | CIT |
| 3 | 3 |  | CS/IT FREE ELECTIVE 1 | 4.5 | - | 3.0 |  |  | CIT |
|  |  |  | **Total** | **18.0** | **13.5** | **15.0\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 1 | CS123 | MODELLING AND SIMULATION | 4.5 | - | 3.0 |  |  | CIT |
| 4 | 1 | CS150P | SOFTWARE ENGINEERING (PAIRED) | 3.0 | 4.5 | 3.0 | CS105P |  | CIT |
| 4 | 1 | CS200P-1 | THESIS 1 (PAIRED) | 1.5 | 4.5 | 2.0 | RES110P |  | CIT |
| 4 | 1 | IT126L | SCIENCE APPLICATION PROGRAMMING (LAB) | - | 4.5 | 1.0 | BIO011, CHM015, IT112P-2, PHY015 |  | CIT |
| 4 | 1 |  | CS SPECIALIZATION ELECTIVE 2 | 3.0 | 4.5 | 3.0 |  |  | CIT |
| 4 | 1 | SS014 | JOSE RIZAL & THE DEVELOPMENT OF FILIPINO NATIONALISM | 4.5 | - | 3.0 |  |  | CAS |
|  |  |  | **Total** | **16.5** | **18.0** | **15.0\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 2 | CPE151P | OPERATING SYSTEMS APPLICATIONS (PAIRED) | 3.0 | 4.5 | 3.0 |  |  | MITL |
| 4 | 2 | CS122 | AUTOMATA AND LANGUAGE THEORY | 4.5 | - | 3.0 | MATH140 |  | CIT |
| 4 | 2 | CS200P-2 | THESIS 2 (PAIRED) | 1.5 | 4.5 | 2.0 | CS200P-1 |  | CIT |
| 4 | 2 | ENG043L | ENGLISH FOR THE WORKPLACE 3 | - | 3.0 | 1.0 | ENG042L |  | CAS |
| 4 | 2 |  | CS SPECIALIZATION ELECTIVE 3 | 3.0 | 4.5 | 3.0 |  |  | CIT |
| 4 | 2 |  | CS/IT FREE ELECTIVE 2 | 4.5 | - | 3.0 |  |  | CIT |
| 4 | 2 | VE014 | VALUES EDUCATION 4 | 1.5 | - | 1.0 | VE013 |  | CAS |
|  |  |  | **Total** | **18.0** | **16.5** | **16.0\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 3 | CS198L | COMPREHENSIVE EXAMINATION MODULE (LAB) | - | 4.5 | 1.0 | CANDIDATE FOR GRADUATION |  | CIT |
| 4 | 3 | CS180F | C.S. FIELD TRIPS (FLD) | - | 4.5 | 1.0 | CANDIDATE FOR GRADUATION |  | CIT |
| 4 | 3 | CS200P-3 | THESIS 3 (PAIRED) | 1.5 | 4.5 | 2.0 | CS200P-2 |  | CIT |
| 4 | 3 | IT181 | ETHICS AND I.T. LAWS | 4.5 | - | 3.0 | 4th Year Standing |  | CIT |
| 4 | 3 |  | CS/IT FREE ELECTIVE 3 | 4.5 | - | 3.0 |  |  | CIT |
| 4 | 3 |  | CS SPECIALIZATION ELECTIVE 4 | 3.0 | 4.5 | 3.0 |  |  | CIT |
|  |  |  | **Total** | **13.5** | **18.0** | **13.0\*** |  |  |  |

**Required Units of Specialization : 12.00**

|  |
| --- |
| **TRACK FOR JAVA PROGRAMMING** |

**Specialization Code: JAVA TRACK**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 3 | 3 | CS131P | JAVA 1 - INTRODUCTION TO JAVA PROGRAMMING (PAIRED) | 3.0 | 4.5 | 3.0 | CS102 | NONE | CIT |
|  |  |  | **Total** | **3.0** | **4.5** | **3.0** |  |  |  |
|  |  |  |  |  |  | 0.0 |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 1 | CS132P | JAVA 2 - JAVA PROGRAMMING USING FORMS (PAIRED) | 3.0 | 4.5 | 3.0 | CS131P | NONE | CIT |
|  |  |  | **Total** | **3.0** | **4.5** | **3.0** |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 2 | CS133P | JAVA 3 - JAVA APPLETS (PAIRED) | 3.0 | 4.5 | 3.0 | CS132P | NONE | CIT |
|  |  |  | **Total** | **3.0** | **4.5** | **3.0** |  |  |  |
|  |  |  |  |  |  | 0.0 |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 3 | CS134P | JAVA 4 - ADVANCED JAVA PROGRAMMING (PAIRED) | 3.0 | 4.5 | 3.0 | CS133P | NONE | CIT |
|  |  |  | **Total** | **3.0** | **4.5** | **3.0** |  |  |  |

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| --- |
| **TRACK FOR NETWORK ADMINISTRATION** |
| **Specialization Code: CCNA** |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Year** | **Term** | **Code** | Title | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 3 | 3 | IT131P | CCNA 1 - NETWORKING BASICS | 3.0 | 4.5 | 3.0 | NONE | NONE | CIT |
|  |  |  | **Total** | **3.0** | **4.5** | **3.0** |  |  |  |
|  |  |  |  |  |  | 0.0 |  |  |  |
| **Year** | **Term** | **Code** | Title | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 1 | IT132P | CCNA 2 - ROUTERS AND ROUTING BASICS | 3.0 | 4.5 | 3.0 | IT131P | NONE | CIT |
|  |  |  | **Total** | **3.0** | **4.5** | **3.0** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | Title | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 2 | IT133P | CCNA 3 - SWITCHING BASICS AND INTERMEDIATE ROUTING | 3.0 | 4.5 | 3.0 | IT132P | NONE | CIT |
|  |  |  | **Total** | **3.0** | **4.5** | **3.0** |  |  |  |
|  |  |  |  |  |  | 0.0 |  |  |  |
| **Year** | **Term** | **Code** | Title | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 3 | IT134P | CCNA 4 - WAN TECHNOLOGIES | 3.0 | 4.5 | 3.0 | IT133P | NONE | CIT |
|  |  |  | **Total** | **3.0** | **4.5** | **3.0** |  |  |  |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ELECTIVES FOR BATCH 2010** | | | | | | | | | |
| **Elective Type: CIT FREE ELECTIVES 2010 (9)**  **Required Units: 9.00** | | | | | | | | | |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| --- | --- | MGT110 | ENTREPRENEURSHIP AND MANAGEMENT | 4.5 | - | 3.0 | NONE | NONE | ETYCB |
| --- | --- | MATH015 | BUSINESS AND INVESTMENT MATHEMATICS | 4.5 | - | 3.0 | MATH011 | NONE | CAS |
| --- | --- | IT116P | OOP 6 - INTRODUCTION TO MOBILE PROGRAMMING (PAIRED) | 3.0 | 4.5 | 3.0 | IT112P-2 | NONE | CIT |
|  |  |  | **Total** | **12.0** | **4.5** | **9.0** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | *\*PE, NSTP, VE and CORRELATION units are not considered in the computation of TWA and maximum load per term.* | | | | | |
| **TOTAL NO. OF UNITS: 197.0** | | | |  |  |  |  |  |  |
| **LESS NON-ACADEMIC UNITS: 177.0** | | | |  |  |  |  |  |  |