**BACHELOR OF SCIENCE IN COMPUTER ENGINEERING**

*(Curriculum applicable to students who entered as freshmen beginning school year 2009-2010)*

|  |  |  |  |  |  |  |  |  |  |  |
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| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | | **Co-requisites** | **Servicing College/Dept.** |
| 1 | 1 | DRAW021W | ENGINEERING DRAWING 1 (DRAW) | - | 3.0 | 1.0 |  | |  |  |
| 1 | 1 | ENG011 | ENGLISH FOR ACADEMIC STUDIES 1 | 3.0 | - | 2.0 |  | |  |  |
| 1 | 1 | IT001L | COMPUTER FUNDAMENTALS 1 (LAB) | - | 3.0 | 1.0 |  | |  |  |
| 1 | 1 | MATH011 | ALGEBRA | 4.5 | - | 3.0 |  | |  |  |
| 1 | 1 | PE021 | PHYSICAL EDUCATION 1 | - | 2.5 | 1.5 |  | |  |  |
| 1 | 1 | VE021 | VALUES EDUCATION 1 | 1.5 | - | 1.0 |  | |  |  |
| 1 | 1 | NSTP011 | NATIONAL SERVICE TRAINING PROGRAM 1 | - | 3.0 | 2.0 |  | |  |  |
| 1 | 1 |  | SOCIAL SCIENCE 1 | 4.5 | - | 3.0 |  | |  |  |
| 1 | 1 |  | HUMANITIES 1 | 4.5 | - | 3.0 |  | |  |  |
|  |  |  | **Total** | **18.0** | **11.5** | **17.5\*** |  | |  |  |
|  |  |  |  |  |  |  |  | |  |  |
|  |  |  |  |  |  | 0.0 |  | |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | | **Co-requisites** | **Servicing College/Dept.** |
| 1 | 2 | DRAW022W | ENGINEERING DRAWING 2 (DRAW) | - | 3.0 | 1.0 | DRAW021W | |  |  |
| 1 | 2 | ENG012 | ENGLISH FOR ACADEMIC STUDIES 2 | 3.0 | - | 2.0 | ENG011 | |  |  |
| 1 | 2 | IT002L | COMPUTER FUNDAMENTALS 2 (LAB) | - | 3.0 | 1.0 | IT001L | |  |  |
| 1 | 2 | MATH011-12 | ALGEBRA 2 | 3.0 | - | 2.0 | MATH011 | |  |  |
| 1 | 2 | MATH012 | PLANE AND SPHERICAL TRIGONOMETRY | 4.5 | - | 3.0 | MATH011 | |  |  |
| 1 | 2 | PE022 | PHYSICAL EDUCATION 2 | - | 2.5 | 1.5 |  | |  |  |
| 1 | 2 | NSTP012 | NATIONAL SERVICE TRAINING PROGRAM 2 | - | 3.0 | 2.0 | NSTP011 | |  |  |
| 1 | 2 |  | SOCIAL SCIENCE 2 | 4.5 | - | 3.0 |  | |  |  |
| 1 | 2 |  | HUMANITIES 2 | 4.5 | - | 3.0 |  | |  |  |
|  |  |  | **Total** | **19.5** | **11.5** | **18.5\*** |  | |  |  |
|  |  |  |  |  |  |  |  | |  |  |
|  |  |  |  |  |  | 0.0 |  | |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | | **Co-requisites** | **Servicing College/Dept.** |
| 1 | 3 | DRAW023L | COMPUTER-AIDED DRAFTING AND DESIGN (LAB) | - | 3.0 | 1.0 | DRAW022W | |  |  |
| 1 | 3 | ENG013 | ENGLISH FOR ACADEMIC STUDIES 3 | 3.0 | - | 2.0 | ENG012 | |  |  |
| 1 | 3 | CS101L | PROGRAMMING FUNDAMENTALS 1 (LAB) | - | 3.0 | 1.0 | IT002L | |  |  |
| 1 | 3 | MATH013 | ANALYTIC GEOMETRY | 4.5 | - | 3.0 | MATH012 | |  |  |
| 1 | 3 | MATH014 | SOLID MENSURATION | 3.0 | - | 2.0 | MATH011-12 | |  |  |
| 1 | 3 | MATH021 | CALCULUS 1 | 4.5 | - | 3.0 | MATH011-12,MATH012 | | MATH013 |  |
| 1 | 3 | PE023 | PHYSICAL EDUCATION 3 | - | 2.5 | 1.5 |  | |  |  |
| 1 | 3 | NSTP013 | NATIONAL SERVICE TRAINING PROGRAM 3 | - | 3.0 | 2.0 | NSTP011 | |  |  |
| 1 | 3 |  | SOCIAL SCIENCE 3 | 4.5 | - | 3.0 |  | |  |  |
|  |  |  | **Total** | **19.5** | **11.5** | **18.5\*** |  | |  |  |
|  |  |  |  |  |  | 0.0 |  | |  |  |
|  |  |  |  |  |  | 0.0 |  | |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | | **Co-requisites** | **Servicing College/Dept.** |
| 2 | 1 | CHM021 | GENERAL CHEMISTRY 1 | 3.0 | - | 2.0 |  | |  |  |
| 2 | 1 | CHM021L | GENERAL CHEMISTRY 1 (LAB) | - | 3.0 | 1.0 |  | | CHM021 |  |
| 2 | 1 | FIL011 | FILIPINO 1 | 3.0 | - | 2.0 |  | |  |  |
| 2 | 1 | MATH022 | CALCULUS 2 | 4.5 | - | 3.0 | MATH021 | |  |  |
| 2 | 1 | PHY021 | PHYSICS 1 | 4.5 | - | 3.0 | MATH021 | |  |  |
| 2 | 1 | PHY021L | PHYSICS 1 (LAB) | - | 3.0 | 1.0 | MATH021 | | PHY021 |  |
| 2 | 1 | PE024 | PHYSICAL EDUCATION 4 | - | 2.5 | 1.5 | PE023 | |  |  |
| 2 | 1 |  | HUMANITIES 3 | 4.5 | - | 3.0 |  | |  |  |
|  |  |  | **Total** | **19.5** | **8.5** | **16.5\*** |  | |  |  |
|  |  |  |  |  |  |  |  | |  |  |
|  |  |  |  |  |  | 0.0 |  | |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | | **Co-requisites** | **Servicing College/Dept.** |
| 2 | 2 | CHM022 | GENERAL CHEMISTRY 2 | 3.0 | - | 2.0 | CHM021 | |  |  |
| 2 | 2 | CHM022L | GENERAL CHEMISTRY 2 (LAB) | - | 3.0 | 1.0 | CHM021,CHM021L | | CHM022 |  |
| 2 | 2 | FIL012 | FILIPINO 2 | 3.0 | - | 2.0 | FIL011 | |  |  |
| 2 | 2 | MATH023 | CALCULUS 3 | 4.5 | - | 3.0 | MATH022 | |  |  |
| 2 | 2 | PHY022 | PHYSICS 2 | 4.5 | - | 3.0 | PHY021 | |  |  |
| 2 | 2 | PHY022L | PHYSICS 2 (LAB) | - | 3.0 | 1.0 | PHY021,PHY021L | | PHY022 |  |
| 2 | 2 | PE025 | PHYSICAL EDUCATION 5 | - | 2.5 | 1.5 |  | |  |  |
| 2 | 2 |  | SOCIAL SCIENCE 4 | 4.5 | - | 3.0 |  | |  |  |
|  |  |  | **Total** | **19.5** | **8.5** | **16.5\*** |  | |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | | **Co-requisites** | **Servicing College/Dept.** |
| 2 | 3 | CHM023 | GENERAL CHEMISTRY 3 | 3.0 | - | 2.0 | CHM022 | |  |  |
| 2 | 3 | CHM023L | GENERAL CHEMISTRY 3 (LAB) | - | 3.0 | 1.0 | CHM022,CHM022L | | CHM023 |  |
| 2 | 3 | FIL013 | FILIPINO 3 | 3.0 | - | 2.0 | FIL012 | |  |  |
| 2 | 3 | MATH025 | DIFFERENTIAL EQUATIONS | 4.5 | - | 3.0 | MATH023 | |  |  |
| 2 | 3 | MEC101 | STATICS OF RIGID BODIES | 4.5 | - | 3.0 | MATH022,PHY022 | |  |  |
| 2 | 3 | PHY023 | PHYSICS 3 | 4.5 | - | 3.0 | PHY022 | |  |  |
| 2 | 3 | PHY023L | PHYSICS 3 (LAB) | - | 3.0 | 1.0 | PHY022,PHY022L | | PHY023 |  |
| 2 | 3 | PE026 | PHYSICAL EDUCATION 6 | - | 2.5 | 1.5 | PE025 | |  |  |
| 2 | 3 | VE022 | VALUES EDUCATION 2 | 1.5 | - | 1.0 | VE021 | |  |  |
|  |  |  | **Total** | **21.0** | **8.5** | **17.5\*** |  | |  |  |
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|  |  |  |  |  |  |  |  | |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | | **Co-requisites** | **Servicing College/Dept.** |
| 2 | 4 | SS014 | JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM | 4.5 | - | 3.0 |  | |  |  |
|  |  |  | **Total** | **4.5** | **0.0** | **3\*** |  | |  |  |
|  |  |  |  |  |  |  |  | |  |  |
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| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | | **Co-requisites** | **Servicing College/Dept.** |
| 3 | 1 | MATH110 | PROBABILITY AND STATISTICS | 4.5 | - | 3.0 | MATH022 | |  |  |
| 3 | 1 | COE121L | COMPUTER ENGINEERING DRAFTING AND DESIGN (LAB) | - | 4.5 | 1.0 | 3RD YEAR STANDING | |  |  |
| 3 | 1 | MATH115 | ADVANCED ENGINEERING MATHEMATICS | 4.5 | - | 3.0 | MATH025 | |  |  |
| 3 | 1 | EE101 | CIRCUITS 1 | 4.5 | - | 3.0 | PHY022,MATH025 | |  |  |
| 3 | 1 | EE101L | CIRCUITS 1 (LAB) | - | 4.5 | 1.0 | PHY022,PHY022L,MATH025 | | EE101 |  |
| 3 | 1 | COE198-1 | COE CORRELATION 1 | - | 3.0 | 1.0 | CHM023,PHY023,MATH025 | |  |  |
| 3 | 1 | MEC102 | DYNAMICS OF RIGID BODIES | 3.0 | - | 2.0 | MEC101 | |  |  |
| 3 | 1 | COE 111L | COMPUTER HARDWARE FUNDAMENTALS 1 (LAB) | - | 4.5 | 1.0 | IT002L,PHY023,PHY023L | |  |  |
| 3 | 1 | SAF101 | SAFETY MANAGEMENT | 1.5 | - | 1.0 | 3RD YEAR STANDING | |  |  |
|  |  |  | **Total** | **18.0** | **16.5** | **16\*** |  | |  |  |
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| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | | **Co-requisites** | **Servicing College/Dept.** |
| 3 | 2 | CS106 | DATA STRUCTURES AND ALGORITHM ANALYSIS | 4.5 | - | 3.0 | CS101L | |  |  |
| 3 | 2 | CS106L | DATA STRUCTURES AND ALGORITHM ANALYSIS (LAB) | - | 4.5 | 1.0 | CS101L | | CS106 |  |
| 3 | 2 | ECE101 | ELECTRONIC DEVICES AND CIRCUITS | 4.5 | - | 3.0 | MATH025,EE101 | |  |  |
| 3 | 2 | ECE101L | ELECTRONIC DEVICES AND CIRCUITS (LAB) | - | 4.5 | 1.0 | MATH025,EE101,EE101L | | ECE101 |  |
| 3 | 2 | EE102 | CIRCUITS 2 | 4.5 | - | 3.0 | EE101 | |  |  |
| 3 | 2 | EE102L | CIRCUITS 2 (LAB) | - | 4.5 | 1.0 | EE101,EE101L | | EE102 |  |
| 3 | 2 | MEC103 | MECHANICS OF DEFORMABLE BODIES | 4.5 | - | 3.0 | MEC101 | |  |  |
|  |  |  | **Total** | **18.0** | **13.5** | **15\*** |  | |  |  |
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| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | | **Co-requisites** | **Servicing College/Dept.** |
| 3 | 3 | RES101P | METHODS OF RESEARCH (PAIRED) | 1.5 | 4.5 | 2.0 | MATH110 | |  |  |
| 3 | 3 | COE101 | LOGIC CIRCUITS AND SWITCHING THEORY | 4.5 | - | 3.0 | ECE101 | |  |  |
| 3 | 3 | COE101L | LOGIC CIRCUITS AND SWITCHING THEORY (LAB) | - | 4.5 | 1.0 | ECE101 ,ECE101L | | COE101 |  |
| 3 | 3 | ECE102 | ELECTRONICS CIRCUITS ANALYSIS AND DESIGN | 4.5 | - | 3.0 | ECE101 | |  |  |
| 3 | 3 | ECE102L | ELECTRONICS CIRCUITS ANALYSIS AND DESIGN (LAB) | - | 4.5 | 1.0 | ECE101 ,ECE101L | | ECE102 |  |
| 3 | 3 | IT111P | OOP 1 - CONCEPTS IN OBJECT ORIENTED PROGRAMMING (PAIRED) | 4.5 | 4.5 | 3.0 | CS106 | |  |  |
| 3 | 3 | ECE121P | INTRODUCTION TO MATLAB (PAIRED) | 1.5 | 3.0 | 1.0 | 3RD YEAR STANDING | |  |  |
| 3 | 3 | VE023 | VALUES EDUCATION 3 | 1.5 | - | 1.0 | VE021 | |  |  |
|  |  |  | **Total** | **18.0** | **21.0** | **15\*** |  | |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 1 | ENG019 | WRITING AT THE WORKPLACE (EWP-1) | 3.0 | - | 2.0 | ENG013 | |  |  |
| 4 | 1 | COE131 | COMPUTER SYSTEMS ORGANIZATION WITH ASSEMBLY LANGUAGE PROGRAMMING | 4.5 | - | 3.0 | CS106 | |  |  |
| 4 | 1 | COE131L | COMPUTER SYSTEMS ORGANIZATION WITH ASSEMBLY LANGUAGE PROGRAMMING 1 (LAB) | - | 4.5 | 1.0 | CS106 | | COE131 |  |
| 4 | 1 | COE102P | ADVANCED LOGIC CIRCUITS AND SWITCHING THEORY (PAIRED) | 4.5 | 4.5 | 4.0 | COE101 | |  |  |
| 4 | 1 | ECE1O7 | CONTROL SYSTEMS | 4.5 | - | 3.0 | ECE102 ,EE102 | |  |  |
| 4 | 1 | ECE1O7L | CONTROL SYSTEMS (LAB) | - | 4.5 | 1.0 | ECE102 ,ECE102L,EE102,EE102L | | ECE1O7 |  |
| 4 | 1 | COE200 | COE DESIGN PROJECT STUDY 1 | - | 3.0 | 1.0 | RES101P | |  |  |
|  |  |  | **Total** | **16.5** | **16.5** | **15\*** |  | |  |  |
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| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 2 | ENG020 | SPEAKING AT THE WORKPLACE (EWP-2) | 1.5 | 3.0 | 2.0 | ENG019 | |  |  |
| 4 | 2 | MATH140 | DISCRETE MATHEMATICS | 4.5 | - | 3.0 | MATH011 | |  |  |
| 4 | 2 | COE103 | MICROPROCESSOR SYSTEM | 4.5 | - | 3.0 | COE131,COE102P | |  |  |
| 4 | 2 | COE103L | MICROPROCESSORS SYSTEM (LAB) | - | 4.5 | 1.0 | COE131,COE102P | | COE103 |  |
| 4 | 2 | COE200-1 | COE DESIGN PROJECT STUDY 2 | - | 3.0 | 1.0 | COE200 | |  |  |
| 4 | 2 | COE 132 | COMPUTER SYSTEMS ARCHITECTURE | 4.5 | - | 3.0 | COE131 | |  |  |
| 4 | 2 | COE 132L | COMPUTER SYSTEMS ARCHITECTURE (LAB) | - | 4.5 | 1.0 | COE131,COE131L | | COE 132 |  |
|  |  |  | **Total** | **15.0** | **15.0** | **14\*** |  | |  |  |
|  |  |  |  |  |  |  |  | |  |  |
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| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | | **Co-requisites** |  |
| 4 | 3 | ENG021 | READING AT THE WORKPLACE (EWP-3) | 3.0 | - | 2.0 | ENG020 | |  |  |
| 4 | 3 | COE104P | MEMORY AND INPUT/OUTPUT SYSTEMS (PAIRED) | 3.0 | 4.5 | 3.0 | COE103 | |  |  |
| 4 | 3 | COE151 | OPERATING SYSTEMS | 4.5 | - | 3.0 | COE131 | |  |  |
| 4 | 3 | COE15IL | OPERATING SYSTEMS (LAB) | - | 4.5 | 1.0 | COE131,COE131L | | COE151 |  |
| 3 | 3 | MATH160 | NUMERICAL METHODS | 4.5 | - | 3.0 | MATH025 | |  |  |
| 4 | 3 | COE200-2 | COE DESIGN PROJECT STUDY 3 | - | 3.0 | 1.0 | COE200-1 | |  |  |
| 4 | 3 | VE024 | VALUES EDUCATION 4 | 1.5 | - | 1.0 | VE021 | |  |  |
| 4 | 3 | COE198-2 | COE CORRELATION 2 | - | 3.0 | 1.0 | COE198-1,COE102P | |  |  |
|  |  |  | **Total** | **16.5** | **15.0** | **15\*** |  | |  |  |
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| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | | **Co-requisites** | **Servicing College/Dept.** |
| 5 | 1 | ECE141 | PRINCIPLES OF COMMUNICATION | 4.5 | - | 3.0 |  | |  |  |
| 5 | 1 | CS103P | SYSTEM ANALYSIS AND DESIGN (PAIRED) | 3.0 | 4.5 | 3.0 | CS106,IT111P | |  |  |
| 5 | 1 | CS150 | SOFTWARE ENGINEERING | 4.5 | - | 3.0 | CS106 | |  |  |
| 5 | 1 | MGT110 | ENTREPRENEURSHIP AND MANAGEMENT | 4.5 | - | 3.0 | 5TH YEAR STANDING | |  |  |
| 5 | 1 |  | COE ELECTIVE 1 | 3.0 | 3.0 | 3.0 |  | |  |  |
|  |  |  | **Total** | **19.5** | **7.5** | **15\*** |  | |  |  |
|  |  |  |  |  |  |  |  | |  |  |
|  |  |  |  |  |  |  |  | |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | | **Co-requisites** | **Servicing College/Dept.** |
| 5 | 2 | IT130 | DATA COMMUNICATIONS AND INTRODUCTION TO NETWORK TECHNOLOGIES | 4.5 | - | 3.0 | ECE141 | |  |  |
| 5 | 2 | ECE122 | SIGNALS, SPECTRA, AND DIGITAL SIGNAL PROCESSING | 4.5 | - | 3.0 | MATH115 | |  |  |
| 5 | 2 | ECE122L | SIGNALS, SPECTRA AND DIGITAL SIGNAL PROCESSING (LAB) | - | 4.5 | 1.0 | MATH115 | | ECE122 |  |
| 5 | 2 | EECO101 | ENGINEERING ECONOMY | 4.5 | - | 3.0 | 3RD YEAR STANDING | |  |  |
| 5 | 2 | COE198-3 | COE CORRELATION 3 | - | 3.0 | 1.0 | COE198-2,COE131 | |  |  |
| 5 | 2 | COE191F | COE SEMINARS AND FIELD TRIPS (FIELD) | - | 4.5 | 1.0 | 5TH YEAR STANDING | |  |  |
| 5 | 2 |  | COE ELECTIVE 2 | 3.0 | 3.0 | 3.0 |  | |  |  |
|  |  |  | **Total** | **16.5** | **15.0** | **15\*** |  | |  |  |
|  |  |  |  |  |  |  |  | |  |  |
|  |  |  |  |  |  |  |  | |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | | **Co-requisites** | **Servicing College/Dept.** |
| 5 | 3 | IT131 | COMPUTER NETWORKS | 4.5 | - | 3.0 | IT130 | |  |  |
| 5 | 3 | IT131L | COMPUTER NETWORKS (LAB) | - | 4.5 | 1.0 | IT130 | | IT131 |  |
| 5 | 3 | EENV 101 | ENVIRONMENTAL ENGINEERING | 4.5 | - | 3.0 | CHM023,CHM023L | |  |  |
| 5 | 3 | EMGT101 | ENGINEERING MANAGEMENT | 4.5 | - | 3.0 | 3RD YEAR STANDING | |  |  |
| 5 | 3 | COE 181 | ENGINEERING ETHICS AND COMPUTER LAWS | 3.0 | - | 2.0 | 5TH YEAR STANDING | |  |  |
| 5 | 3 |  | COE ELECTIVE 3 | 3.0 | 3.0 | 3.0 |  | |  |  |
|  |  |  | **Total** | **19.5** | **7.5** | **15\*** |  | |  |  |
|  |  |  |  |  |  | *\* PE, NSTP, VE and CORRELATION course units are not considered in the computation of TWA and maximum load per term* | | | | |
|  |  |  |  |  |  |  | |  |  |  |
| **TOTAL NO. OF UNITS:** | | | **243.0** |  |  |  | |  |  |  |
| **LESS NON-ACADEMIC UNITS:** | | | **221.0** |  |  |  | |  |  |  |
|  |  |  |  |  |  |  | |  |  |  |