**BACHELOR OF SCIENCE IN CIVIL ENGINEERING (B.S. CE)**

*(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 | DRAW021W | ENGINEERING DRAWING 1 (DRAW) | - | 3.0  | 1.0  |   |   | CAS |
| 1 | 1 | ENG011 | ENGLISH FOR ACADEMIC STUDIES 1 | 3.0  | - | 2.0  |   |   | CAS |
| 1 | 1 | IT001L | COMPUTER FUNDAMENTALS 1 (LAB) | - | 3.0  | 1.0  |   |   | CIT |
| 1 | 1 | MATH011 | ALGEBRA  | 4.5  | - | 3.0  |   |   | CAS |
| 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 |
| 1 | 1 |  CWTS011 | OVERVIEW OF THE NATIONAL SERVICE TRAINING PROGRAM  | 3.0 | - | 2.0  |   |   | CSRO |
| 1 | 1 |  SS016 | PHILIPPINE HISTORY | 4.5  | - | 3.0  |   |   | CAS |
| 1 | 1 |  HUM014 | PHILIPPINE LITERATURE IN ENGLISH | 4.5  | - | 3.0  |   |   | CAS |
|  |  |  | **Total** | **21.0**  | **8.5**  | **17.5\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **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 |   | CAS |
| 1 | 2 | ENG012 | ENGLISH FOR ACADEMIC STUDIES 2 | 3.0  | - | 2.0  | ENG011 |   | CAS |
| 1 | 2 | IT002L | COMPUTER FUNDAMENTALS 2 (LAB) | - | 3.0  | 1.0  | IT001L |   | CIT |
| 1 | 2 | MATH011-2 | ADVANCED ALGEBRA | 3.0  | - | 2.0  | MATH011 |   | CAS |
| 1 | 2 | MATH012 | PLANE AND SPHERICAL TRIGONOMETRY | 4.5  | - | 3.0  | MATH011 |   | CAS |
| 1 | 2 | PE022 | PHYSICAL EDUCATION 2: DANCE & MARTIAL ARTS | - | 2.5  | 1.5  |    |   | CAS |
| 1 | 2 | CWTS012 | CIVIC WELFARE TRAINING COURSE - I | 3.0 | - | 2.0  | CSWTS011 |   | CSRO |
| 1 | 2 |  SS013 | ECONOMICS, TAXATION & AGRARIAN REFORM | 4.5  | - | 3.0  |   |   | CAS |
| 1 | 2 |  HUM011 | LOGIC REASONING WITH CRITICAL THINKING | 4.5  | - | 3.0  |   |   | CAS |
|  |  |  | **Total** | **22.5**  | **8.5**  | **18.5\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **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 |   | CAS |
| 1 | 3 | ENG013 | ENGLISH FOR ACADEMIC STUDIES 3 | 3.0  | - | 2.0  | ENG012 |   | CAS |
| 1 | 3 | MATH013 | ANALYTIC GEOMETRY | 4.5  | - | 3.0  | MATH012 |   | CAS |
| 1 | 3 | MATH014 | SOLID MENSURATION | 3.0  | - | 2.0  | MATH012 |   | CAS |
| 1 | 3 | MATH021 | CALCULUS 1 | 4.5  | - | 3.0  | MATH012 | MATH013 | CAS |
| 1 | 3 | PE023 | PHYSICAL EDUCATION 3: INDIVIDUAL/DUAL SPORTS | - | 2.5  | 1.5  |   |   | CAS |
| 1 | 3 | CWTS013 | CIVIC WELFARE TRAINING COURSE – II | 3.0 | - | 2.0  | CWTS012 |   | CSRO |
| 1 | 3 | HUM016 | ADVANCED LOGIC AND REASONING | 4.5  | - | 3.0  |  HUM011 |   | CAS |
|  |  |  | **Total** | **22.5**  | **5.5**  | **17.5\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **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  |  |   | CAS |
| 2 | 1 | CHM021L | GENERAL CHEMISTRY 1 LABORATORY | - | 3.0  | 1.0  |   | CHM021 | CAS |
| 2 | 1 | FIL011 | FILIPINO 1 | 3.0  | - | 2.0  |   |   | CAS |
| 2 | 1 | MATH022 | CALCULUS 2 | 4.5  | - | 3.0  | MATH021,MATH013 |   | CAS |
| 2 | 1 | PHY021 | PHYSICS 1 | 4.5  | - | 3.0  | MATH021 |   | CAS |
| 2 | 1 | PHY021L | PHYSICS 1 (LAB) | - | 3.0  | 1.0  | MATH021 | PHY021 | CAS |
| 2 | 1 | PE024 | PHYSICAL EDUCATION 4: ADVANCED INDIVIDUAL/DUAL SPORTS | - | 2.5  | 1.5  | PE023 |   | CAS |
| 2 | 1 | SS015 | POLITICS, GOVERNANCE AND THE 1987 PHILIPPINE CONSTITUTION | 4.5  | - | 3.0  |   |   | CAS |
|  |  |  | **Total** | **19.5**  | **8.5**  | **16.5\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **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,  |   | CAS |
| 2 | 2 | CHM022L | GENERAL CHEMISTRY 2 LABORATORY | - | 3.0  | 1.0  | CHM021,CHM021L | CHM022 | CAS |
| 2 | 2 | FIL012 | FILIPINO 2 | 3.0  | - | 2.0  | FIL011 |   | CAS |
| 2 | 2 | MATH023 | CALCULUS 3 | 4.5  | - | 3.0  | MATH022 |   | CAS |
| 2 | 2 | PHY022 | PHYSICS 2 | 4.5  | - | 3.0  | PHY021, MATH022 |   | CAS |
| 2 | 2 | PHY022L | PHYSICS 2 (LAB) | - | 3.0  | 1.0  | PHY021,PHY021L, MATH022 | PHY022 | CAS |
| 2 | 2 | PE025 | PHYSICAL EDUCATION 5: TEAM SPORTS | - | 2.5  | 1.5  |   |   | CAS |
| 2 | 2 | CS101L | PROGRAMMING FUNDAMENTALS 1 (LAB) | - | 3.0  | 1.0  |  |   | CIT |
|  |  |  | **Total** | **15.0**  | **11.5**  | **14.5\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **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 |   | CAS |
| 2 | 3 | CHM023L | GENERAL CHEMISTRY 3 LABORATORY | - | 3.0  | 1.0  | CHM022,CHM022L | CHM023 | CAS |
| 2 | 3 | FIL013 | FILIPINO 3 | 3.0  | - | 2.0  | FIL012 |   | CAS |
| 2 | 3 | MATH025 | DIFFERENTIAL EQUATIONS | 4.5  | - | 3.0  | MATH023 |   | CAS |
| 2 | 3 | PHY023 | PHYSICS 3 | 4.5  | - | 3.0  | PHY022 |   | CAS |
| 2 | 3 | PHY023L | PHYSICS 3 (LAB) | - | 3.0  | 1.0  | PHY022,PHY022L | PHY023 | CAS |
| 2 | 3 | PE026 | PHYSICAL EDUCATION 6: ADVANCED TEAM SPORTS | - | 2.5  | 1.5  | PE025 |   | CAS |
| 2 | 3 | VE012 | VALUES EDUCATION 2 | 1.5  | - | 1.0  | VE011 |   | CAS |
| 2 | 3 | CS102L | PROGRAMMING FUNDAMENTALS 2 (LAB) | - | 3.0  | 1.0  | CS101L |   | CIT |
|  |  |  | **Total** | **16.5**  | **11.5**  | **15.5\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **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  | MATH011 |   | CAS |
| 3 | 1 | MATH115 | ADVANCED ENGINEERING MATHEMATICS | 4.5  | - | 3.0  | MATH025 |   | MITL |
| 3 | 1 | MEC101 | STATICS OF RIGID BODIES | 4.5  | - | 3.0  | MATH022, PHY022 |   | CAS |
| 3 | 1 | EE104 | BASIC ELECTRICAL ENGINEERING | 4.5  | - | 3.0  | PHY023, PHY023L |   | MITL |
| 3 | 1 | ME123 | BASIC MECHANICAL ENGINEERING | 4.5  | - | 3.0  | PHY023, PHY023L |   | MITL |
|  |  |  | **Total** | **22.5**  | **0.0**  | **15.0\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 3 | 2 | CE101 | SURVEYING 1 | 4.5  | - | 3.0  | MATH011-2, MATH012 |   | MITL |
| 3 | 2 | CE101F | SURVEYING 1 (FIELD) | - | 4.5  | 1.0  | MATH011-2, MATH012 | CE101 | MITL |
| 3 | 2 | MEC102 | DYNAMICS OF RIGID BODIES | 4.5  | - | 3.0  | MEC101 |   | CAS |
| 3 | 2 | RES101P | METHODS OF RESEARCH (PAIRED) | 1.5  | 3.0  | 2.0 | MATH 110 |   | CAS |
| 3 | 2 | SAF101 | SAFETY MANAGEMENT | 1.5  | - | 1.0 | 3rd Year Standing |   | MITL |
| 3 | 2 | SS014 | JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM | 4.5  | - | 3.0  |   |   | CAS |
| 3 | 2 | ECE121P | INTRODUCTION TO MATLAB (PAIRED) | 1.5  | 3.0  | 1.0  | 3rd Year Standing |   | MITL |
|  |  |  | **Total** | **18.0**  | **10.5**  | **14.0\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 3 | 3 | CE102 | SURVEYING 2 | 4.5  | - | 3.0 | CE 101 |   | MITL |
| 3 | 3 | CE102F | SURVEYING 2 (FIELD) | - | 4.5  | 1.0 | CE 101, CE101F | CE 102 | MITL |
| 3 | 3 | MEC103 | MECHANICS OF DEFORMABLE BODIES | 4.5  | - | 3.0  | MEC101 |   | CAS |
| 3 | 3 | CE121 | MECHANICS OF FLUIDS | 3.0  | - | 2.0 | MEC 102 |   | MITL |
| 3 | 3 | CE121L | MECHANICS OF FLUIDS (LAB) |   | 4.5  | 1.0 | MEC 102 | CE 121 | MITL |
| 3 | 3 | CE131 | STRUCTURAL THEORY 1 | 4.5  | - | 3.0  | MEC 103 |   | MITL |
| 3 | 3 | CE131L | STRUCTURAL THEORY 1 (LAB) | - | 4.5  | 1.0  | MEC 103 | CE 131 | MITL |
| 3 | 3 | BEC198 | BASIC ENGINEERING CORRELATION | - | 3.0  | 1.0  |  MATH115, PHY023, CHM023 |   | MITL |
| 3 | 3 | VE 013 | VALUES EDUCATION 3 | 1.5  | - | 1.0  | VE011 |   | CAS |
|  |  |  | **Total** | **18.0**  | **16.5**  | **16\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 3 | 4 | EMGT101 | ENGINEERING MANAGEMENT | 4.5  | - | 3.0 |  |   | MITL |
| 3 | 4 | EECO101 | ENGINEERING ECONOMY | 4.5  | - | 3.0 |  |   | MITL |
| 3 | 4 | SS017 | SOCIETY, CULTURE & FAMILY LIFE | 4.5  | - | 3.0  |   |   | CAS |
|  |  |  | **Total** | **13.5**  | **0.0**  | **9.0\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 1 | CE123 | HYDRAULICS | 3.0  | - | 2.0 | CE 121 |   | MITL |
| 4 | 1 | CE123L | HYDRAULICS (LAB) | - | 4.5  | 1.0 | CE 121, CE 121L | CE123 | MITL |
| 4 | 1 | CE101P | BUILDING DESIGN 1 (PAIRED) | 1.5  | 4.5  | 2.0 | DRAW022W |   | MITL |
| 4 | 1 | CE122 | HYDROLOGY | 4.5  | - | 3.0 | CE 121, CE 121L |   | MITL |
| 4 | 1 | ENG041L | ENGLISH FOR THE WORKPLACE 1 | - | 3.0 | 1.0 | ENG 013 |   | CAS |
| 4 | 1 | CE132 | STRUCTURAL THEORY 2 | 4.5  | - | 3.0 | MATH 115, CE 131 |   | MITL |
| 4 | 1 | CE132L | STRUCTURAL THEORY 2 (LAB) | - | 4.5  | 1.0 | MATH 115, CE 131, CE 131L | CE 132 | MITL |
|  |  |  | **Total** | **13.5**  | **16.5** | **13.0\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 2 | CE101P-1 | BUILDING DESIGN 2 (PAIRED) | 1.5  | 4.5  | 2.0 | CE101D |  | MITL |
| 4 | 2 | ENG042L | ENGLISH FOR THE WORKPLACE 2 | - | 3.0 | 1.0 | ENG041L |   | CAS |
| 4 | 2 | CE151 | GEOTECHNICAL ENGINEERING 1 (SOIL MECHANICS) | 4.5  | - | 3.0 | MEC 103 |   | MITL |
|   4 | 2 | CE151L | GEOTECHNICAL ENGINEERING 1 (LAB) | - | 4.5  | 1.0 | MEC 103 | CE 151 | MITL |
| 4 | 2 | CE133 | STRUCTURAL DESIGN 1: RCD | 4.5  | - | 3.0 | CE 132 |   | MITL |
| 4 | 2 | CE133L | STRUCTURAL DESIGN 1: RCD (LAB) | - | 4.5  | 1.0 | CE 132, CE 132L | CE 133 | MITL |
| 4 | 2 | CE103 | HIGHWAY ENGINEERING | 4.5  | - | 3.0 | CE102, CE102F |   | MITL |
|  |  |  | **Total** | **15.0** | **16.5** | **14.0\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 3 | CE152 | GEOTECHNICAL ENGINEERING 2 (FOUNDATION) | 4.5  | - | 3.0 | CE151 |   | MITL |
| 4 | 3 | CE152L | GEOTECHNICAL ENGINEERING 2 (LAB) | - | 4.5  | 1.0 | CE151 | CE 151 | MITL |
| 4 | 3 | ENG043L | ENGLISH FOR THE WORKPLACE 3 | - | 3.0 | 1.0 | ENG042L |   | CAS |
| 4 | 3 | CE134 | STRUCTURAL DESIGN 2: STEEL & TIMBER | 4.5  | - | 3.0 | CE 133 |   | MITL |
| 4 | 3 | CE134L | STRUCTURAL DESIGN 2: STEEL & TIMBER (LAB) | - | 4.5  | 1.0 | CE 133, CE 133L | CE 134 | MITL |
| 4 | 3 | CE198 | CE CORRELATION 1 | - | 3.0  | 1.0 | EECO101,CE101-1DCE151CE133CE103  |   | MITL |
| 4 | 3 | VE014 | VALUES EDUCATION 4 | 1.5  | - | 1.0 | VE 013 |   | CAS |
| 4 | 3 | CEELEC01 | CE ELECTIVE 1 | 4.5  | - | 3.0 |   |   | MITL |
|  |  |  | **Total** | **15.0** | **15.0** | **14.0\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 4 | MATH160 | NUMERICAL METHODS | 4.5  | - | 3.0 | MATH 025 |   | MITL |
|  |  |  | **Total** | **4.5**  | **0.0**  | **3.0\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 5 | 1 | CE141 | CONSTRUCTION MATERIALS & TESTING | 3.0  | - | 2.0 | MEC 103 |   | MITL |
| 5 | 1 | CE141L | CONSTRUCTION MATERIALS & TESTING (LAB) | - | 4.5  | 1.0 | MEC 103 | CE 141 | MITL |
| 5 | 1 | MATH140 | DISCRETE MATHEMATICS | 4.5  | - | 3.0  | MATH 011 |   | MITL |
| 5 | 1 | CE200P | CE DESIGN PROJECT STUDY 1 (PAIRED) | 1.5  | 4.5  | 2.0 | 5th Year Standing |   | MITL |
| 5 | 1 | CEELEC02P | CE ELECTIVE 2 | 3.0  | 3.0 | 3.0 |   |   | MITL |
| 5 | 1 | CE105 | TRANSPORTATION ENGINEERING | 4.5  | - | 3.0 | CE103  |   | MITL |
| 5 | 1 | CE200 | CE THESIS 1 | - | 3.0  | 1.0 | RES 101P |   | MITL |
|  |  |  | **Total** | **16.5**  | **15.0**  | **15.0\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 5 | 2 | CE200-1D | CE DESIGN PROJECT STUDY 2 | - | 4.5  | 1.0 | CE200D |   | MITL |
| 5 | 2 | CE124 | WATER RESOURCES ENGINEERING | 4.5  | - | 3.0 |  CE123 |   | MITL |
| 5 | 2 | CE142 | CONSTRUCTION METHODS AND PROJECT MANAGEMENT | 4.5  | - | 3.0 | 5th Year Standing |   | MITL |
| 5 | 2 | CE142L | CONSTRUCTION METHODS AND PROJECT MANAGEMENT (FIELD) | - | 4.5  | 1.0 | 5th Year Standing | CE 142 | MITL |
| 5 | 2 | CEELEC03  | CE ELECTIVE 3 | 4.5  | - | 3.0 |   |   | MITL |
| 5 | 2 | EENV101 | ENVIRONMENTAL ENGINEERING | 4.5  | - | 3.0 | CHM 023 |   | MITL |
| 5 | 2 | CE200-1 | CE THESIS 2 | - | 3.0  | 1.0 | CE200 |   | MITL |
|  |  |  | **Total** | **18.0**  | **12.0**  | **15.0\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 5 | 3 | CE181 | CE LAWS, CONTRACTS, SPECIFICATIONS AND ETHICS | 4.5  | - | 3.0 | 5th Year Standing |   | MITL |
| 5 | 3 | CE200-2D | CE DESIGN PROJECT STUDY 3 | - | 4.5  | 1.0 | CE200-1D |   | MITL |
| 5 | 3 | MSE101 | FUNDAMENTALS OF MATERIAL SCIENCE AND ENGINEERING | 4.5  | - | 3.0  | PHY023, CHM023 |   | MITL |
| 5 | 3 |  CEELEC04P | CE ELECTIVE 4 | 3.0  | 3.0 | 3.0 |   |   | MITL |
| 5 | 3 | CE198-1 | CE CORRELATION 2 | - | 3.0  | 1.0 | CE 198,CE124,CE142,CE105,CE141,CE152, CE134 |   | MITL |
| 5 | 3 | CE200-2 | CE THESIS 3 | - | 3.0  | 1.0 | CE 200-1 |   | MITL |
|  |  |  | **Total** | **12.0**  | **13.5**  | **12.0\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | *\*PE, NSTP, VE and CORRELATION units are not considered in the computation of TWA and maximum load per term* |
| **TOTAL NO. OF UNITS: 240.0** |  |  |  |  |  |  |  |
| **LESS NON-ACADEMIC UNITS: 218.0** |  |  |  |  |  |  |  |