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

*(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\*** |  | |  | |  | |
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| **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\*** |  | |  | |  | |
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| **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 | 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** | **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 | 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\*** |  | |  | |  | |
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| **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 | CS101L | PROGRAMMING FUNDAMENTALS 1 (LAB) | | - | 3.0 | 1.0 | CS101L | |  | |  | |
|  |  |  | **Total** | | **15.0** | **11.5** | **14.5\*** |  | |  | |  | |
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| **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 | CS102L | PROGRAMMING FUNDAMENTALS 2 (LAB) | | - | 3.0 | 1.0 |  | |  | |  | |
| 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** | | **16.5** | **11.5** | **15.5\*** |  | |  | |  | |
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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 | MATH115 | ADVANCED ENGINEERING MATHEMATICS | | 4.5 | - | 3.0 | MATH025 | |  | |  | |
| 3 | 1 | MEC101 | STATICS OF RIGID BODIES | | 4.5 | - | 3.0 | MATH022,PHY022 | |  | |  | |
| 3 | 1 | CE198-1 | CE CORRELATION 1 | | - | 3.0 | 1.0 | PHY023,MATH025,CHM023 | |  | |  | |
| 3 | 1 | EE111 | BASIC ELECTRICAL ENGINEERING | | 4.5 | - | 3.0 | PHY023,PHY023L | |  | |  | |
| 3 | 1 | ME123 | BASIC MECHANICAL ENGINEERING | | 4.5 | - | 3.0 | PHY023,PHY023L | |  | |  | |
|  |  |  | **Total** | | **22.5** | **3.0** | **16\*** |  | |  | |  | |
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| **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 | MATH011-12,MATH012 | |  | |  | |
| 3 | 2 | CE101F | SURVEYING 1 (FIELD) | | - | 4.5 | 1.0 | MATH011-12,MATH012 | | CE101 | |  | |
| 3 | 2 | MEC102 | DYNAMICS OF RIGID BODIES | | 4.5 | - | 3.0 | MEC101 | |  | |  | |
| 3 | 2 | RES101P | METHODS OF RESEARCH (PAIRED) | | 1.5 | 4.5 | 2.0 | MATH 110 | |  | |  | |
| 3 | 2 | SAF101 | SAFETY MANAGEMENT | | 1.5 | - | 1.0 | 3RD YEAR STANDING | |  | |  | |
| 3 | 2 | SS014 | JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM | | 4.5 | - | 3.0 |  | |  | |  | |
| 3 | 2 | ECE121P | INTRODUCTION TO MATLAB (PAIRED) | | 1.5 | 3.0 | 1.0 | 3RD YEAR STANDING | |  | |  | |
|  |  |  | **Total** | | **18.0** | **12.0** | **14\*** |  | |  | |  | |
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| **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 | |  | |  | |
| 3 | 3 | CE102F | SURVEYING 2 (FIELD) | | - | 4.5 | 1.0 | CE 101,CE 101F | | CE 102 | |  | |
| 3 | 3 | MEC103 | MECHANICS OF DEFORMABLE BODIES | | 4.5 | - | 3.0 | MEC101 | |  | |  | |
| 3 | 3 | CE121 | MECHANICS OF FLUIDS | | 3.0 | - | 2.0 | MEC 102 | |  | |  | |
| 3 | 3 | CE121L | MECHANICS OF FLUIDS (LAB) | |  | 4.5 | 1.0 | MEC 102 | | CE 121 | |  | |
| 3 | 3 | CE131 | STRUCTURAL THEORY 1 | | 4.5 | - | 3.0 | MEC 103 | |  | |  | |
| 3 | 3 | CE131L | STRUCTURAL THEORY 1 (LAB) | | - | 4.5 | 1.0 | MEC 103 | | CE 131 | |  | |
| 3 | 3 | VE023 | VALUES EDUCATION 3 | | 1.5 | - | 1.0 | VE 012 | |  | |  | |
|  |  |  | **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 | 4 | EMGT101 | ENGINEERING MANAGEMENT | | 4.5 | - | 3.0 | 3rd Year Standing | |  | |  | |
| 3 | 4 | EECO101 | ENGINEERING ECONOMY | | 4.5 | - | 3.0 |  | |  | |  | |
| 3 | 4 |  | SOCIAL SCIENCE 4 | | 4.5 | - | 3.0 |  | |  | |  | |
|  |  |  | **Total** | | **13.5** | **0.0** | **9\*** |  | |  | |  | |
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| **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 | |  | |  | |
| 4 | 1 | CE123L | HYDRAULICS (LAB) | | - | 4.5 | 1.0 | CE 121,CE 121L | | CE123 | |  | |
| 4 | 1 | CE101D | BUILDING DESIGN 1 (DESIGN) | | 1.5 | 4.5 | 2.0 | DRAW022W | |  | |  | |
| 4 | 1 | CE122 | HYDROLOGY | | 4.5 | - | 3.0 | CE 121,CE 121L | |  | |  | |
| 4 | 1 | ENG019 | WRITING AT THE WORKPLACE (EWP-1) | | 3.0 | - | 2.0 | ENG 013 | |  | |  | |
| 4 | 1 | CE132 | STRUCTURAL THEORY 2 | | 4.5 | - | 3.0 | MATH 115,CE 131 | |  | |  | |
| 4 | 1 | CE132L | STRUCTURAL THEORY 2 (LAB) | | - | 4.5 | 1.0 | MATH 115,CE 131,CE 131L | | CE 132 | |  | |
| 4 | 1 | CE200 | CE THESIS 1 | | - | 3.0 | 1.0 | RES 101P | |  | |  | |
|  |  |  | **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 | CE101-1D | BUILDING DESIGN 2 (DESIGN) | | 1.5 | 4.5 | 2.0 | CE101D | |  | |  | |
| 4 | 2 | ENG020 | SPEAKING AT THE WORKPLACE (EWP-2) | | 3.0 | - | 2.0 | ENG019 | |  | |  | |
| 4 | 2 | CE151 | GEOTECHNICAL ENGINEERING 1 (SOIL MECHANICS) | | 4.5 | - | 3.0 | MEC 103 | |  | |  | |
|  |  | CE151L | GEOTECHNICAL ENGINEERING 1 (LAB) | | - | 4.5 | 1.0 | MEC 103 | | CE 151 | |  | |
| 4 | 2 | CE133 | STRUCTURAL DESIGN 1: RCD | | 4.5 | - | 3.0 | CE 132 | |  | |  | |
| 4 | 2 | CE133L | STRUCTURAL DESIGN 1: RCD (LAB) | | - | 4.5 | 1.0 | CE 132,CE 132L | | CE 133 | |  | |
| 4 | 2 | CE200-1 | CE THESIS 2 | | - | 3.0 | 1.0 | CE200 | |  | |  | |
|  |  |  | **Total** | | **13.5** | **16.5** | **13\*** |  | |  | |  | |
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| **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 | |  | |  | |
| 4 | 3 | CE152L | GEOTECHNICAL ENGINEERING 2 (LAB) | | - | 4.5 | 1.0 | CE151 | | CE 151 | |  | |
| 4 | 3 | CE103 | HIGHWAY ENGINEERING | | 4.5 | - | 3.0 | CE102, CE102F | |  | |  | |
| 4 | 3 | ENG021 | READING AT THE WORKPLACE (EWP-3) | | 3.0 | - | 2.0 | ENG020 | |  | |  | |
| 4 | 3 | CE200-2 | CE THESIS 3 | | - | 3.0 | 1.0 | CE 200-1 | |  | |  | |
| 4 | 3 | CE198-2 | CE CORRELATION 2 | | - | 3.0 | 1.0 | CE 198-1,CE 133 | |  | |  | |
| 4 | 3 | VE024 | VALUES EDUCATION 4 | | 1.5 | - | 1.0 | VE 013 | |  | |  | |
| 4 | 3 |  | CE ELECTIVE 1 | | 4.5 | - | 3.0 |  | |  | |  | |
|  |  |  | **Total** | | **18.0** | **10.5** | **15\*** |  | |  | |  | |
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| **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 | |  | |  | |
|  |  |  | **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.** | |
| 5 | 1 | CE141 | CONSTRUCTION MATERIALS & TESTING | | 3.0 | - | 2.0 | MEC 103 | |  | |  | |
| 5 | 1 | CE141L | CONSTRUCTION MATERIALS & TESTING (LAB) | | - | 4.5 | 1.0 | MEC 103 | | CE 141 | |  | |
| 5 | 1 | CE134 | STRUCTURAL DESIGN 2: STEEL & TIMBER | | 4.5 | - | 3.0 | CE 132 | |  | |  | |
| 5 | 1 | CE134L | STRUCTURAL DESIGN 2: STEEL & TIMBER (LAB) | | - | 4.5 | 1.0 | CE 132,CE 132L | | CE 134 | |  | |
| 5 | 1 | CE200D | CE DESIGN PROJECT STUDY 1 | | 1.5 | 4.5 | 2.0 | 5TH YEAR STANDING | |  | |  | |
| 5 | 1 |  | CE ELECTIVE 2 | | 4.5 | - | 3.0 |  | |  | |  | |
| 5 | 1 | CE105 | TRANSPORTATION ENGINEERING | | 4.5 | - | 3.0 |  | |  | |  | |
|  |  |  | **Total** | | **18.0** | **13.5** | **15\*** |  | | **2** | |  | |
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| **Year** | **Term** | **Code** | **Title** | | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | | **Co-requisites** | | **Servicing College/Dept.** | |
| 5 | 2 | MATH140 | DISCRETE MATHEMATICS | | 4.5 | - | 3.0 | MATH 022 | |  | |  | |
| 5 | 2 | CE200-1D | CE DESIGN PROJECT STUDY 2 | | - | 4.5 | 1.0 | CE200D | |  | |  | |
| 5 | 2 | CE124 | WATER RESOURCES ENGINEERING | | 4.5 | - | 3.0 |  | |  | |  | |
| 5 | 2 | CE142 | CONSTRUCTION METHODS AND PROJECT MANAGEMENT | | 4.5 | - | 3.0 | CE 141 | |  | |  | |
| 5 | 2 | CE142L | CONSTRUCTION METHODS AND PROJECT MANAGEMENT (LAB) | | - | 4.5 | 1.0 | CE 141,CE 141L | | CE 142 | |  | |
| 5 | 2 | CE198-3 | CE CORRELATION 3 | | - | 3.0 | 1.0 | CE 198-2,CE 142 | |  | |  | |
| 5 | 2 |  | CE ELECTIVE 3 | | 4.5 | - | 3.0 |  | |  | |  | |
|  |  |  | **Total** | | **18.0** | **12.0** | **15\*** |  | |  | |  | |
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| **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 | |  | |  | |
| 5 | 3 | CE200-2D | CE DESIGN PROJECT STUDY 3 | | - | 4.5 | 1.0 | CE200-1D | |  | |  | |
| 5 | 3 |  |  | |  |  |  |  | |  | |  | |
| 5 | 3 | MSE101 | FUNDAMENTALS OF MATERIAL SCIENCE AND ENGINEERING | | 4.5 | - | 3.0 | PHY 013,CHM 013 | |  | |  | |
| 5 | 3 |  | CE ELECTIVE 4 | | 4.5 | - | 3.0 |  | |  | |  | |
| 5 | 3 | EENV101 | ENVIRONMENTAL ENGINEERING | | 4.5 | - | 3.0 | CHM 013 | |  | |  | |
|  |  |  | **Total** | | **18.0** | **4.5** | **13\*** |  | | **0** | |  | |
|  |  |  |  | |  |  | *\* PE, NSTP and VE units are not considered in the computation of TWA and maximum load per term* | | | | | | |
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| **TOTAL NO. OF UNITS:** | | | | **243.0** |  |  |  | |  | |  | |  |
| **LESS NON-ACADEMIC UNITS:** | | | | **221.0** |  |  |  | |  | |  | |  |