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| **BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING (B.S. ME)** |
| *(Curriculum applicable to students who entered as freshmen beginning school year 2009-2010)* |

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 1 | 1 | DRAW011W | 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 | NSTP011 | NATIONAL SERVICE TRAINING PROGRAM 1 | - | 3.0 | 2.0 |  |  |  |
| 1 | 1 | PE021 | PHYSICAL EDUCATION 1 | - | 2.5 | 1.5 |  |  |  |
| 1 | 1 | VE011 | VALUES EDUCATION 1 | 1.5 | - | 1.0 |  |  |  |
| 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 | DRAW012W | ENGINEERING DRAWING 2 (DRAW) | - | 3.0 | 1.0 | DRAW011W |  |  |
| 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 | NSTP012 | NATIONAL SERVICE TRAINING PROGRAM 2 | - | 3.0 | 2.0 | NSTP011 |  |  |
| 1 | 2 | PE022 | PHYSICAL EDUCATION 2 | - | 2.5 | 1.5 |  |  |  |
| 1 | 1 |  | HUMANITIES 2 | 4.5 | - | 3.0 |  |  |  |
| 1 | 1 |  | SOCIAL SCIENCE 2 | 4.5 | - | 3.0 |  |  |  |
|  |  |  | **Total** | **19.5** | **11.5** | **18.5\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 1 | 3 | DRAW013L | COMPUTER-AIDED DRAFTING AND DESIGN (LAB) | - | 3.0 | 1.0 | DRAW012W |  |  |
| 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 | MATH012 |  |  |
| 1 | 3 | MATH021 | CALCULUS 1 | 4.5 | - | 3.0 | MATH011-12,MATH012 |  |  |
| 1 | 3 | NSTP013 | NATIONAL SERVICE TRAINING PROGRAM 3 | - | 3.0 | 2.0 | NSTP012 |  |  |
| 1 | 3 | PE023 | PHYSICAL EDUCATION 3 | - | 2.5 | 1.5 |  |  |  |
| 1 | 3 |  | SOCIAL SCIENCE 3 | 4.5 | - | 3.0 |  |  |  |
|  |  |  | **Total** | **19.5** | **8.5** | **17.5\*** |  |  |  |
|  |  |  |  |  |  | 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 | PE024 | PHYSICAL EDUCATION 4 | - | 2.5 | 1.5 | PE023 |  |  |
| 2 | 1 | PHY021 | PHYSICS 1 | 4.5 | - | 3.0 | MATH021 |  |  |
| 2 | 1 | PHY021L | PHYSICS 1 (LAB) | - | 3.0 | 1.0 | MATH021 | PHY021 |  |
| 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 | CHM012 | GENERAL CHEMISTRY 2 | 3.0 | - | 2.0 | CHM021 |  |  |
| 2 | 2 | CHM012L | GENERAL CHEMISTRY 2 (LAB) | - | 3.0 | 1.0 | CHM021,CHM021L | CHM012 |  |
| 2 | 2 | FIL012 | FILIPINO 2 | 3.0 | - | 2.0 | FIL011 |  |  |
| 2 | 2 | MATH023 | CALCULUS 3 | 4.5 | - | 3.0 | MATH022 |  |  |
| 2 | 2 | CS101L | COMPUTER PROGRAMMING 1(LAB) | - | 3.0 | 1.0 | IT002L |  |  |
| 2 | 2 | PE025 | PHYSICAL EDUCATION 5 | - | 2.5 | 1.5 |  |  |  |
| 2 | 2 | PHY022 | PHYSICS 2 | 4.5 | - | 3.0 | PHY021 |  |  |
| 2 | 2 | PHY022L | PHYSICS 2 (LAB) | - | 3.0 | 1.0 | PHY021,PHY021L | PHY022 |  |
|  |  |  | **Total** | **15.0** | **2.5** | **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 | CHM012 |  |  |
| 2 | 3 | CHM023L | GENERAL CHEMISTRY 3 (LAB) | - | 3.0 | 1.0 | CHM012,CHM012L | CHM023 |  |
| 2 | 3 | FIL013 | FILIPINO 3 | 3.0 | - | 2.0 | FIL012 |  |  |
| 2 | 3 | MATH025 | DIFFERENTIAL EQUATIONS | 4.5 | - | 3.0 | MATH023 |  |  |
| 2 | 3 | PE026 | PHYSICAL EDUCATION 6 | - | 2.5 | 1.5 | PE025 |  |  |
| 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 | VE012 | VALUES EDUCATION 2 | 1.5 | - | 1.0 | VE011 |  |  |
| 2 | 2 | CS102L | COMPUTER PROGRAMMING 2 (LAB) | - | 3.0 | 1.0 | CS101L |  |  |
|  |  |  | **Total** | **16.5** | **11.5** | **15.5\*** |  |  |  |
|  |  |  |  |  |  | 0.0 |  |  |  |
| **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 |  |  |  |
| 2 | 4 |  | SOCIAL SCIENCE 4 | 4.5 | - | 3.0 |  |  |  |
|  |  |  | **Total** | **9.0** | **0.0** | **6\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 3 | 1 | ME101 | ORIENTATION TO MECHANICAL ENGINEERING | 1.5 |  | 1.0 |  |  |  |
| 3 | 1 | SAF101 | SAFETY MANAGEMENT | 1.5 | - | 1.0 | 3RD YEAR STANDING |  |  |
| 3 | 1 | MATH110 | PROBABILITY AND STATISTICS | 4.5 | - | 3.0 | MATH022 |  |  |
| 3 | 1 | MATH115 | ADVANCED ENGINEERING MATHEMATICS | 4.5 | - | 3.0 | MATH025 |  |  |
| 3 | 1 | ME101P | ENGINEERING MATERIALS, PROCESSES AND TESTING (PAIRED) | 4.5 | 4.5 | 4.0 | CHM021,CHM021L |  |  |
| 3 | 1 | ME198-1 | ME CORRELATION 1 | - | 3.0 | 1.0 | MATH025,CHM023,PHY023 |  |  |
| 3 | 1 | MEC101 | STATICS OF RIGID BODIES | 4.5 | - | 3.0 | MATH023,PHY022,PHY022L |  |  |
|  |  |  | **Total** | **21.0** | **7.5** | **16\*** |  |  |  |
|  |  |  |  |  |  | 0.0 |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 3 | 2 | EE111 | BASIC ELECTRICAL ENGINEERING | 4.5 | - | 3.0 | PHY023,PHY023L |  |  |
| 3 | 2 | EE111L | BASIC ELECTRICAL ENGINEERING (LAB) | - | 4.5 | 1.0 | PHY023,PHY023L | EE111 |  |
| 3 | 2 | ME102L | MECHANICAL PROCESSES 1-1 - WORKSHOP THEORY & PRACTICE | - | 4.5 | 1.0 | SAF101,ME101P,DRAW011W |  |  |
| 3 | 2 | ME104 | SAFETY ENGINEERING FOR ME | 3.0 |  | 2.0 | SAF101 |  |  |
| 3 | 2 | ME111 | THERMODYNAMICS 1 | 4.5 | - | 3.0 | MATH022,PHY023 |  |  |
| 3 | 2 | ECE121P | INTRODUCTION TO MATLAB (PAIRED) | 1.5 | 3.0 | 1.0 | 3RD YEAR STANDING |  |  |
| 3 | 2 | MEC102 | DYNAMICS OF RIGID BODIES | 3.0 | - | 2.0 | MEC101 |  |  |
|  |  |  | **Total** | **16.5** | **12.0** | **13\*** |  |  |  |
|  |  |  |  |  |  | 0.0 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 3 | 3 | ECE106 | BASIC ELECTRONICS | 4.5 | - | 3.0 | EE111 |  |  |
| 3 | 3 | ECE106L | BASIC ELECTRONICS (LAB) | - | 4.5 | 1.0 | EE111,EE111L | ECE106 |  |
| 3 | 3 | EE108 | DC/AC MACHINERY | 4.5 | - | 3.0 | EE111 |  |  |
| 3 | 3 | EE108L | DC/AC MACHINERY (LAB) | - | 4.5 | 1.0 | EE111,EE111L | EE108 |  |
| 3 | 3 | ME102-1L | MECHANICAL PROCESSES 1-2 - WORKSHOP THEORY & PRACTICE (LAB) | - | 4.5 | 1.0 | ME102L |  |  |
| 3 | 3 | ME112 | THERMODYNAMICS 2 | 4.5 | - | 3.0 | ME111 |  |  |
| 3 | 3 | MEC103 | MECHANICS OF DEFORMABLE BODIES | 4.5 | - | 3.0 | MEC101 |  |  |
| 3 | 3 | VE013 | VALUES EDUCATION 3 | 1.5 | - | 1.0 | VE012 |  |  |
|  |  |  | **Total** | **19.5** | **13.5** | **16\*** |  |  |  |
|  |  |  |  |  |  | 0.0 |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 3 | 4 | ME171 | VIBRATION ENGINEERING | 3.0 | - | 2.0 | MATH115 |  |  |
| 3 | 4 | EECO101 | ENGINEERING ECONOMY | 4.5 | - | 3.0 | 3RD YEAR STANDING |  |  |
| 3 | 4 | EMGT101 | ENGINEERING MANAGEMENT | 4.5 | - | 3.0 | 3RD YEAR STANDING |  |  |
|  |  |  | **Total** | **12.0** | **0.0** | **8.0** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 1 | ME105 | FLUID MECHANICS | 4.5 | - | 3.0 | MEC102 |  |  |
| 4 | 1 | ENG031 | ENGLISH FOR THE WORKPLACE 1 | 3.0 | - | 2.0 | ENG013 |  |  |
| 4 | 1 | ME103L | MECHANICAL PROCESSES 2-1 (MACHINE SHOP THEORY & PRACTICE) | - | 4.5 | 1.0 | ME102-1L |  |  |
| 4 | 1 | ME113 | FUELS AND COMBUSTION ENGINEERING | 4.5 | - | 3.0 | ME111 |  |  |
| 4 | 1 | ME114 | HEAT TRANSFER | 4.5 | - | 3.0 | ME112 |  |  |
| 4 | 1 | ME122P | MACHINE ELEMENTS 1 (PAIRED) | 3.0 | 4.5 | 3.0 | PHY022 |  |  |
|  |  |  | **Total** | **19.5** | **9.0** | **15\*** |  |  |  |
|  |  |  |  |  |  | 0.0 |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 2 | ENG032 | ENGLISH FOR THE WORKPLACE 2 | 3.0 | - | 2.0 | ENG031 |  |  |
| 4 | 2 | MATH160 | NUMERICAL METHODS | 4.5 |  | 3.0 | MATH025 |  |  |
| 4 | 2 | ME103-1L | MECHANICAL PROCESSES 2-2 (MACHINE SHOP THEORY & PRACTICE) | - | 4.5 | 1.0 | ME103L |  |  |
| 4 | 2 | ME122-1P | MACHINE ELEMENTS 2 (PAIRED) | 3.0 | 4.5 | 3.0 | ME122P |  |  |
| 4 | 2 | ME115 | REFRIGERATION ENGINEERING | 4.5 | - | 3.0 | ME114 |  |  |
| 4 | 2 | RES101P | METHODS OF RESEARCH (PAIRED) | 1.5 | 4.5 | 2.0 | MATH110 |  |  |
|  |  |  | **Total** | **16.5** | **13.5** | **14\*** |  |  |  |
|  |  |  |  |  |  | 0.0 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 3 | EE109 | INSTRUMENTATION AND CONTROL | 3.0 | - | 2.0 | ME113,ME114 |  |  |
| 4 | 3 | EE109L | INSTRUMENTATION AND CONTROL (LAB) | - | 4.5 | 1.0 | ME113,ME114 | EE109 |  |
| 4 | 3 | EENV101 | ENVIRONMENTAL ENGINEERING | 3.0 | - | 2.0 | CHM023 |  |  |
| 4 | 3 | ME141L | MECHANICAL ENGINEERING 1 (LAB) | - | 9.0 | 2.0 | SAF101,ME112 |  |  |
| 4 | 3 | ME151 | FLUID MACHINERIES | 4.5 | - | 3.0 | ME105 |  |  |
| 4 | 3 | ME198-2 | ME CORRELATION 2 | - | 3.0 | 1.0 | ME103-1L,ME198-1 |  |  |
| 4 | 3 | ENG033 | ENGLISH FOR THE WORKPLACE 3 | 3.0 | - | 2.0 | ENG032 |  |  |
| 4 | 3 |  | ME ELECTIVE 1 | 4.5 | - | 3.0 |  |  |  |
| 4 | 3 | VE014 | VALUES EDUCATION 4 | 1.5 | - | 1.0 | VE013 |  |  |
|  |  |  | **Total** | **19.5** | **16.5** | **17\*** |  |  |  |
|  |  |  |  |  |  | 0.0 |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 4 | ME199R/ ME117F | ON-THE-JOB TRAINING (OJT)/ PLANT VISIT AND SEMINARS | - | 13.5 | 3.0 | 4TH YEAR STANDING |  |  |
|  |  |  | **Total** | **0.0** | **13.5** | **3\*** |  |  |  |
|  |  |  |  |  |  | 0.0 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 5 | 1 | MATH140 | DISCRETE MATHEMATICS | 4.5 | 0.0 | 3.0 | MATH022 |  |  |
| 5 | 1 | ME115-1 | AIR-CONDITIONING AND VENTILATION SYSTEMS | 3.0 | 4.5 | 3.0 | ME115 |  |  |
| 5 | 1 | ME144 | INDUSTRIAL PROCESSES | 3.0 | 0.0 | 2.0 | CHM023 |  |  |
| 5 | 1 | ME142L | MECHANICAL ENGINEERING 2 (LAB) | - | 9.0 | 2.0 | ME114,ME141L |  |  |
| 5 | 1 |  | ME ELECTIVE 2 | 4.5 |  | 3.0 |  |  |  |
| 5 | 1 | ME200 | ME DESIGN PROJECT STUDY 1 | - | 4.5 | 1.0 | RES101P |  |  |
|  |  |  | **Total** | **15.0** | **18.0** | **14\*** |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | 0  .0 |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 5 | 2 | ME131 | MACHINE DESIGN 1 | 4.5 | - | 3.0 | ME101P, , ME121P |  |  |
| 5 | 2 | ME131L | MACHINE DESIGN 1 (LAB) | - | 4.5 | 1.0 | ME101P,ME122P | ME131 |  |
| 5 | 2 | ME143L | MECHANICAL ENGINEERING 3 (LAB) | - | 9.0 | 2.0 | ME114,ME142L,ME151 |  |  |
| 5 | 2 | ME161P | POWER PLANT ENGINEERING (PAIRED) | 6.0 | 4.5 | 5.0 | ME113,ME114,ME151 |  |  |
| 5 | 2 |  | ME ELECTIVE 3 | 4.5 |  | 3.0 |  |  |  |
| 5 | 2 | ME198-3 | ME CORRELATION 3 | - | 3.0 | 1.0 | ME142L,ME198-2 |  |  |
| 5 | 2 | ME200-1 | ME DESIGN PROJECT STUDY 2 | - | 4.5 | 1.0 | ME200 |  |  |
|  |  |  | **Total** | **15.0** | **25.5** | **16\*** |  |  |  |
|  |  |  |  |  |  | 0.0 |  |  |  |
| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 5 | 3 |  | ME ELECTIVE 4 | 4.5 |  | 3.0 |  |  |  |
| 5 | 3 | ME181 | ME LAWS, CONTRACTS & ETHICS | 4.5 | - | 3.0 |  |  |  |
| 5 | 3 | ME200-2 | ME DESIGN PROJECT STUDY 3 | - | 4.5 | 1.0 | ME200-1 |  |  |
| 5 | 3 | ME132 | MACHINE DESIGN 2 | 4.5 | - | 3.0 | ME131 |  |  |
| 5 | 3 | ME132L | MACHINE DESIGN 2 (LAB) | - | 4.5 | 1.0 | ME131,ME131L | ME132 |  |
| 5 | 3 | ME116P | INDUSTRIAL PLANT ENGINEERING | 4.5 | 4.5 | 4.0 | ME115 |  |  |
|  |  |  | **Total** | **18.0** | **13.5** | **15\*** |  |  |  |
|  |  |  |  |  |  | 0.0 |  |  |  |
| **TOTAL NO. OF UNITS: 253** | | | |  |  | 0.0 |  |  |  |
| **LESS NON-ACADEMIC UNITS: 233** | | | |  |  | 0.0 |  |  |  |