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| **BACHELOR OF SCIENCE IN MARINE ENGINEERING** |
| *(Curriculum applicable to students who entered as freshmen beginning school year 2010-2011)* |

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| **Year** | | **Term** | | **Code** | | **Title** | | **Lec Hrs** | | **Lab Hrs** | | **Total Units** | | | **Prerequisites** | | | **Co-requisites** | | **Servicing College/Dept.** |
| 1 | | 1 | | MATH011 | | ALGEBRA | | 4.5 | | - | | 3.0 | | |  | | |  | | CAS |
| 1 | | 1 | | FIL011 | | FILIPINO 1 | | 3.0 | | - | | 2.0 | | |  | | |  | | CAS |
| 1 | | 1 | | ENG011 | | ENGLISH FOR ACADEMIC STUDIES 1 | | 3.0 | | - | | 2.0 | | |  | | |  | | CAS |
| 1 | | 1 | | IT011L | | I.T. FUNDAMENTALS 1 (LAB) | | - | | 3.0 | | 1.0 | | |  | | |  | | CIT |
| 1 | | 1 | | DRAW015W | | ENGINEERING DRAWING 1 (DRAW) | | - | | 3.0 | | 1.0 | | |  | | |  | | CAS |
| 1 | | 1 | | CHM015 | | CHEMISTRY | | 4.5 | | - | | 3.0 | | |  | | |  | | CAS |
| 1 | | 1 | | CWTS011 | | OVERVIEW OF THE NATIONAL SERVICE TRAINING PROGRAM | | 3.0 | | - | | 2.0 | | |  | | |  | | CSRO |
| 1 | | 1 | | MT101P | | SHIPS, SHIP ROUTINES AND CONSTRUCTON (PAIRED) | | 3.0 | | 4.5 | | 3.0 | | |  | | |  | | CMET |
| 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** | | **22..5** | | **13.0** | | **19.5\*** | | |  | | |  | |  |
|  | |  | |  | |  | |  | |  | |  | | |  | | |  | |  |
| **Year** | | **Term** | | **Code** | | **Title** | | **Lec Hrs** | | **Lab Hrs** | | **Total Units** | | | **Prerequisites** | | | **Co-requisites** | | **Servicing College/Dept.** |
| 1 | | 2 | | FIL012 | | FILIPINO 2 | | 3.0 | | - | | 2.0 | | | FIL 011 | | |  | | CAS |
| 1 | | 2 | | ENG012 | | ENGLISH FOR ACADEMIC STUDIES 2 | | 3.0 | | - | | 2.0 | | | ENG 011 | | |  | | CAS |
| 1 | | 2 | | DRAW016L | | COMPUTER-AIDED DRAFTING AND DESIGN (LAB) | | - | | 3.0 | | 1.0 | | | DRAW015W | | |  | | CAS |
| 1 | | 2 | | MATH012 | | PLANE AND SPHERICAL TRIGONOMETRY | | 4.5 | | - | | 3.0 | | | MATH 011 | | |  | | CAS |
| 1 | | 2 | | MT131P | | BASIC SAFETY | | 3.0 | | 4.5 | | 3.0 | | |  | | |  | | CMET |
| 1 | | 2 | | ME101 | | ENGINEERING MATERIALS | | 4.5 | | - | | 3.0 | | | CHM 015 | | |  | | MITL |
| 1 | | 2 | | CHM015L | | CHEMISTRY LABORATORY | | - | | 3.0 | | 1.0 | | |  | | | CHM 015 | | CAS |
| 1 | | 2 | | CWTS014 | | CIVIC WELFARE AND MILITARY SERVICE TRAINING COURSE - I | | 3.0 | | - | | 2.0 | | | CWTS011 | | |  | | CSRO |
| 1 | | 2 | | PE022 | | PHYSICAL EDUCATION 2: DANCE & MARTIAL ARTS | | - | | 2.5 | | 1.5 | | | PE 021 | | |  | | CAS |
|  | |  | |  | | **TOTAL** | | **22.5** | | **13.0** | | **18.5\*** | | |  | | |  | |  |
|  | |  | |  | |  | |  | |  | |  | | |  | | |  | |  |
| **Year** | | **Term** | | **Code** | | **Title** | | **Lec Hrs** | | **Lab Hrs** | | **Total Units** | | | **Prerequisites** | | | **Co-requisites** | | **Servicing College/Dept.** |
| 1 | | 3 | | FIL013 | | FILIPINO 3 | | 3.0 | | - | | 2.0 | | | FIL 012 | | |  | | CAS |
| 1 | | 3 | | ENG013 | | ENGLISH FOR ACADEMIC STUDIES 3 | | 3.0 | | - | | 2.0 | | | ENG 012 | | |  | | CAS |
| 1 | | 3 | | IT012L | | I.T. FUNDAMENTALS 3 (LAB) | | - | | 3.0 | | 1.0 | | | IT 011L | | |  | | CIT |
| 1 | | 3 | | ME104-1P | | MACHINE SHOP 1 (PAIRED) | | 1.5 | | 9.0 | | 3.0 | | | ME 101 | | |  | | MITL |
| 1 | | 3 | | MARE101 | | INTRODUCTION TO NAVAL ARCHITECTURE | | 3.0 | | - | | 2.0 | | | DRAW 016L, MT101P | | |  | | CMET |
| 1 | | 3 | | CWTS015 | | CIVIC WELFARE AND MILITARY SERVICE TRAINING COURSE - II | | 3.0 | | - | | 2.0 | | | CWTS014 | | |  | | CSRO |
| 1 | | 3 | | CHM017 | | INDUSTRIAL CHEMISTRY | | 3.0 | | - | | 2.0 | | | CHM 015, CHM 015L | | |  | | CAS |
| 1 | | 3 | | MATH013 | | ANALYTIC GEOMETRY | | 4.5 | | - | | 3.0 | | | MATH 012 | | |  | | CAS |
| 1 | | 3 | | PE027 | | PHYSICAL EDUCATION 3: BASIC SWIMMING | | - | | 2.5 | | 1.5 | | |  | | |  | | CAS |
|  | |  | |  | | **TOTAL** | | **21.0** | | **14.5** | | **18.5\*** | | |  | | |  | |  |
|  | |  | |  | |  | |  | |  | |  | | |  | | |  | |  |
| **Year** | | **Term** | | **Code** | | **Title** | | **Lec Hrs** | | **Lab Hrs** | | **Total Units** | | | **Prerequisites** | | | **Co-requisites** | | **Servicing College/Dept.** |
| 1 | | 4 | | SS020 | | GENERAL PSYCHOLOGY WITH PADAMS, AIDS PREVENTION & FAMILY PLANNING | | 4.5 | | - | | 3.0 | | |  | | |  | | CAS |
| 1 | | 4 | | EC011 | | STCW'78 as amended and The MARITIME LABOR CONVENTION of 2006 | | 3.0 | | - | | 2.0 | | |  | | |  | | CAS |
| 1 | | 4 | | MATH017 | | SOLID MENSURATION FOR MARITIME PROGRAMS | | 4.5 | | - | | 3.0 | | | MATH012 | | |  | | CAS |
|  | |  | |  | | **TOTAL** | | **12.0** | | **0.0** | | **8.0\*** | | |  | | |  | |  |
|  | |  | |  | |  | |  | |  | |  | | |  | | |  | |  |
| **Year** | | **Term** | | **Code** | | **Title** | | **Lec Hrs** | | **Lab Hrs** | | **Total Units** | | | **Prerequisites** | | | **Co-requisites** | | **Servicing College/Dept.** |
| 2 | | 1 | | ENG017 | | MARINE VOCABULARY AND TERMS (MARITIME ENGLISH) | | 4.5 | | - | | 3.0 | | | ENG 013 | | |  | | CAS |
| 2 | | 1 | | MATH020 | | BASIC CALCULUS | | 4.5 | | - | | 3.0 | | | MATH 013 | | |  | | CAS |
| 2 | | 1 | | EE151 | | ELECTROTECHNOLOGY 1 | | 3.0 | | - | | 2.0 | | |  | | |  | | MITL |
| 2 | | 1 | | EE151L | | ELECTROTECHNOLOGY 1 (LAB) | | - | | 4.5 | | 1.0 | | |  | | | EE 151 | | MITL |
| 2 | | 1 | | ME104-2P | | MACHINE SHOP 2 (PAIRED) | | 1.5 | | 9.0 | | 3.0 | | | ME 104-1P | | |  | | MITL |
| 2 | | 1 | | EC012 | | SHIP MANAGEMENT SYSTEMS | | 3.0 | | - | | 2.0 | | |  | | |  | | CMET |
| 2 | | 1 | | EC 013 | | OCEAN USE MANAGEMENT | | 3.0 | | - | | 2.0 | | |  | | |  | | CMET |
| 2 | | 1 | | PE028 | | PHYSICAL EDUCATION 4: ADVANCED SWIMMING | | - | | 2.5 | | 1.5 | | | PE 027 | | |  | | CAS |
|  | |  | |  | | **TOTAL** | | **19.5** | | **16.0** | | **17.5\*** | | |  | | |  | |  |
|  | |  | |  | |  | |  | |  | |  | | |  | | |  | |  |
| **Year** | | **Term** | | **Code** | | **Title** | | **Lec Hrs** | | **Lab Hrs** | | **Total Units** | | | **Prerequisites** | | | **Co-requisites** | | **Servicing College/Dept.** |
| 2 | | 2 | | IT 013L | | IT FUNDAMENTALS 3 (LAB) | | - | | 3.0 | | 1.0 | | | IT 012L | | |  | | CIT |
| 2 | | 2 | | ENG016 | | ENGLISH FOR THE WORKPLACE | | 4.5 | | - | | 3.0 | | | ENG013 | | |  | | CAS |
| 2 | | 2 | | PHY 001 | | FUNDAMENTAL OF PHYSICS 1 | | 4.5 | | - | | 3.0 | | | MATH012 | | |  | | CAS |
| 2 | | 2 | | PHY 001L | | FUNDAMENTAL OF PHYSICS 1 LABORATORY | | - | | 3.0 | | 1.0 | | | MATH012 | | | PHY 001 | | CAS |
| 2 | | 2 | | ME 104-3P | | MACHINE SHOP 3 (PAIRED) | | 1.5 | | 9.0 | | 3.0 | | | ME 104-2P | | |  | | MITL |
| 2 | | 2 | | EE 152 | | ELECTROTECHNOLOGY 2 | | 4.5 | | - | | 3.0 | | | EE 151 | | |  | | MITL |
| 2 | | 2 | | EE 152L | | ELECTROTECHNOLOGY 2 (LAB) | | - | | 4.5 | | 1.0 | | | EE 151, EE 151L | | | EE 152 | | MITL |
| 2 | | 2 | | PE 025 | | PHYSICAL EDUCATION 5: TEAM SPORTS | | - | | 2.5 | | 1.5 | | |  | | |  | | CAS |
| 2 | | 2 | | VE 012 | | VALUES EDUCATION 2 | | 1.5 | | - | | 1.0 | | | VE 011 | | |  | | CAS |
|  | |  | |  | | **TOTAL** | | **16.5** | | **22.0** | | **17.5\*** | | |  | | |  | |  |
|  | |  | |  | |  | |  | |  | |  | | |  | | |  | |  |
| **Year** | | **Term** | | **Code** | | **Title** | | **Lec Hrs** | | **Lab Hrs** | | **Total Units** | | | **Prerequisites** | | | **Co-requisites** | | **Servicing College/Dept.** |
| 2 | | 3 | | MARE111 | | WATCHKEEPING FOR ENGINE OFFICERS | | 1.5 | | - | | 1.0 | | |  | | | ME105-1, ME162 | | CMET |
| 2 | | 3 | | ME105-1 | | AUXILIARY MACHINE 1 | | 4.5 | | - | | 3.0 | | | ME 104-3P, CHM 017 | | |  | | MITL |
| 2 | | 3 | | ME 105-1L | | AUXILIARY MACHINE 1 (LAB) | | - | | 4.5 | | 1.0 | | | ME 104-3P, CHM 017 | | | ME105-1 | | MITL |
| 2 | | 3 | | ME 162 | | MARINE POWER PLANT – DIESEL | | 4.5 | | - | | 3.0 | | |  | | |  | | MITL |
| 2 | | 3 | | ME 162L | | MARINE POWER PLANT - DIESEL (LAB) | | - | | 4.5 | | 1.0 | | |  | | | ME 162 | | MITL |
| 2 | | 3 | | PHY 002 | | FUNDAMENDATLS PHYSICS 2 | | 4.5 | | - | | 3.0 | | | PHY 001 | | |  | | CAS |
| 2 | | 3 | | PHY 002L | | FUNDAMENTALS PHYSICS 2 (LAB) | | - | | 3.0 | | 1.0 | | | PHY 001, PHY 001L | | | PHY 002 | | CAS |
| 2 | | 3 | | PE 026 | | PHYSICAL EDUCATION 6: ADVANCED TEAM SPORTS | | - | | 2.5 | | 1.5 | | | PE 025 | | |  | | CAS |
|  | |  | |  | | **TOTAL** | | **15.0** | | **14.5** | | **14.5\*** | | |  | | |  | |  |
|  | |  | |  | |  | |  | |  | |  | | |  | | |  | |  |
| **Year** | | **Term** | | **Code** | | **Title** | | **Lec Hrs** | | **Lab Hrs** | | **Total Units** | | | **Prerequisites** | | | **Co-requisites** | | **Servicing College/Dept.** |
| 3 | | 1 | | MARE 199R | | MARE SHIPBOARD TRAINING 1 | | - | | 180.0 | | 40.0 | | | MT 131P | | |  | | CMET |
| 3 | | 2 | |
| 3 | | 3 | |
|  | |  | |  | | **TOTAL** | |  | | **180.0** | | **40.0\*** | | |  | | |  | |  |
|  | |  | |  | |  | |  | |  | |  | | |  | | |  | |  |
| **Year** | | **Term** | | **Code** | | **Title** | | **Lec Hrs** | | **Lab Hrs** | | **Total Units** | | | **Prerequisites** | | | **Co-requisites** | | **Servicing College/Dept.** |
| 4 | | 1 | | EE 153 | | ELECTROTECHNOLOGY 3 | | 4.5 | | - | | 3.0 | | | EE 152 | | |  | | MITL |
| 4 | | 1 | | EE 153L | | ELECTROTECHNOLOGY 3 (LAB) | | - | | 4.5 | | 1.0 | | | EE 152, EE 152L | | | EE 153 | | MITL |
| 4 | | 1 | | ME 106-1 | | MECHANICS AND HYDROMECHANICS 1 | | 3.0 | | - | | 2.0 | | |  | | |  | | MITL |
| 4 | | 1 | | ME 111-1 | | THERMODYNAMCIS | | 3.0 | | - | | 2.0 | | | PH002, PHY002L, MATH020 | | |  | | MITL |
| 4 | | 1 | | MARE 121 | | MARINE POLLUTION AND PREVENTION | | 4.5 | | - | | 3.0 | | |  | | |  | | MITL |
| 4 | | 1 | | ME 105-2P | | AUXILIARY MACHINERY PAIRED | | 3.0 | | 4.5 | | 3.0 | | | ME105-1, ME105-1L | | |  | | MITL |
| 4 | | 1 | | VE 013 | | VALUES EDUCATION 3 | | 1.5 | | - | | 1.0 | | | VE 011 | | |  | | CAS |
| 4 | | 1 | | MARE 198-1 | | MARE CORRELATION 1 | | - | | 3.0 | | 1.0 | | | PHY 002, PHY 002L, MATH 020 | | |  | | CMET |
|  | |  | |  | | **TOTAL** | | **19.5** | | **12.0** | | **16.0\*** | | |  | | |  | |  |
|  | |  | |  | |  | |  | |  | |  | | |  | | |  | |  |
| **Year** | | **Term** | | **Code** | | **Title** | | **Lec Hrs** | | **Lab Hrs** | | **Total Units** | | | **Prerequisites** | | | **Co-requisites** | | **Servicing College/Dept.** |
| 4 | | 2 | | EC 016 | | SHIP AUDITING | | 3.0 | | - | | 2.0 | | |  | | |  | | CMET |
| 4 | | 2 | | ME 112-1 | | ADVANCED THERMODYNAMICS | | 3.0 | | - | | 2.0 | | | ME 111-1 | | |  | | MITL |
| 4 | | 2 | | ME 106-2 | | MECHANICS AND HYDRODYNAMICS 2 | | 3.0 | | - | | 2.0 | | | ME 106-1 | | |  | | MITL |
| 4 | | 2 | | ECE 132-1 | | MARINE AUTOMATION | | 4.5 | | - | | 3.0 | | | EE 153 | | |  | | MITL |
| 4 | | 2 | | ECE 132L-1 | | MARINE AUTOMATION (LAB) | | - | | 4.5 | | 1.0 | | | EE 153, EE 153L | | | ECE 132 | | MITL |
| 4 | | 2 | | ME 163 | | MARINE POWER PLANT – STEAM | | 4.5 | | - | | 3.0 | | | ME 162 | | |  | | MITL |
| 4 | | 2 | | ME 163L | | MARINE POWER PLANT - STEAM (LAB) | | - | | 4.5 | | 1.0 | | | ME 162, ME 162L | | | ME 163 | | MITL |
|  | |  | |  | | **TOTAL** | | **18.0** | | **9.0** | | **14.0\*** | | |  | | |  | |  |
|  | |  | |  | |  | |  | |  | |  | | |  | | |  | |  |
| **Year** | | **Term** | | **Code** | | **Title** | | **Lec Hrs** | | **Lab Hrs** | | **Total Units** | | | **Prerequisites** | | | **Co-requisites** | | **Servicing College/Dept.** |
| 4 | | 3 | | MT 164 | | MARITIME LAW | | 4.5 | | - | | 3.0 | | |  | | |  | | CMET |
| 4 | | 3 | | MT 162 | | SHIPBOARD PERSONNEL MANAGEMENT | | 4.5 | | - | | 3.0 | | |  | | |  | | CMET |
| 4 | | 3 | | SS 019 | | PHILIPPINE HISTORY, GOVERNMENT & CONSTITUTION | | 4.5 | | - | | 3.0 | | |  | | |  | | CAS |
| 4 | | 3 | | VE 014 | | VALUES EDUCATION 4 | | 1.5 | | - | | 1.0 | | | VE 013 | | |  | | CAS |
| 4 | | 3 | | MAREELEC | | MARE ELECTIVE | | 4.5 | | - | | 3.0 | | |  | | |  | |  |
| 4 | | 3 | | ECE 132-2 | | MARINE INSTRUMENTATION & CONTROL | | 4.5 | | - | | 3.0 | | | ECE132-1 | | |  | |  |
| 4 | | 3 | | MARE 198-2 | | MARE CORRELATION 2 | | - | | 3.0 | | 1.0 | | | MARE 198-1, ME 112-1 | | |  | | CMET |
|  | |  | |  | | **TOTAL** | | **24** | | **3.0** | | **17.0\*** | | |  | | |  | |  |
|  | |  | |  | |  | |  | |  | |  | | |  | | |  | |  |
| **Year** | | **Term** | | **Code** | | **Title** | | **Lec Hrs** | | **Lab Hrs** | | **Total Units** | | | **Prerequisites** | | | **Co-requisites** | | **Servicing College/Dept.** |
| 4 | | 4 | | EC 014 | | RISK MANAGEMENT and INCIDENT INVESTIGATION and ROOT CAUSE ANALYSIS | | 3.0 | | - | | 2.0 | | |  | | |  | | CMET |
| 4 | | 4 | | EC 015 | | LEADERSHIP and MANAGEMENT FOR MARITIME OFFICERS | | 3.0 | | - | | 2.0 | | |  | | |  | | CMET |
| 4 | | 4 | | SS 014 | | JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM | | 4.5 | | - | | 3.0 | | |  | | |  | | CAS |
| 4 | | 4 | | HUM018 | | CONTEMPORARY WORLD GEOGRAPHY & CULTURE | | 4.5 | | - | | 3.0 | | |  | | |  | | CAS |
|  | |  | |  | | **TOTAL** | | **15.0** | | **0.0** | | **10.0\*** | | |  | | |  | |  |
|  | |  | |  | |  | |  | |  | |  | | |  | | |  | |  |
| **TECHNICAL ELECTIVES** | | | | | | | | | | | | | | | | | | | | |
|  | |  | |  | |  | |  | |  | |  | |  | | |  | |  | |
| **Year** | | **Term** | | **Code** | | **Title** | | **Lec Hrs** | | **Lab Hrs** | | **Total Units** | | **Prerequisites** | | | **Co-requisites** | | **Servicing College/Dept.** | |
|  | |  | | MARE 160 | | INTRODUCTION TO SHIP BUSINESS MANAGEMENT | | 4.5 | | - | | 3.0 | |  | | |  | | CMET | |
|  | |  | | MARE 161 | | INTRODUCTION TO MARINE SURVEYING | | 4.5 | | - | | 3.0 | |  | | |  | | CMET | |
|  | |  | |  | | **TOTAL** | | **9.0** | | **0.0** | | **6.0** | |  | | |  | |  | |
|  | |  | |  | |  | |  | |  | |  | |  | | |  | |  | |
|  |  | |  | |  | | *\*PE, NSTP, VE and CORRELATION units are not considered in the computation of TWA and maximum load per term.* | | | | | | | | | | | | | | |
| **TOTAL NO. OF UNITS: 211.0** | | | | | | |  | |  | |  | |  | | |  | | | |  | |
| **LESS NON-ACADEMIC UNITS: 190.0** | | | | | | |  | |  | |  | |  | | |  | | | |  | |