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| **BACHELOR OF SCIENCE IN MARINE 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 | MATH 011 | ALGEBRA | 4.5 | |  | 3 |  |  | CAS |
| 1 | 1 | FIL 011 | FILIPINO 1 | 3 | |  | 2 |  |  | CAS |
| 1 | 1 | ENG 011 | ENGLISH FOR ACADEMIC STUDIES 1 | 3 | |  | 2 |  |  | CAS |
| 1 | 1 | IT 011L | I.T. FUNDAMENTALS 1 (LAB) |  | | 3 | 1 |  |  | CIT |
| 1 | 1 | DRAW 015W | ENGINEERING DRAWING 1 (DRAW) |  | | 3 | 1 |  |  | CAS |
| 1 | 1 | CHM 015 | CHEMISTRY | 4.5 | |  | 3 |  |  | CAS |
| 1 | 1 | MT101P | SHIPS, SHIP ROUTINES AND CONSTRUCTON (PAIRED) | 3 | | 3 | 3 |  |  | CMET |
| 1 | 1 | PE 021 | PHYSICAL EDUCATION 1 |  | | 2.25 | (1.5) |  |  | CAS |
| 1 | 1 | VE 011 | VALUES EDUCATION 1 | 1.5 | |  | (1) |  |  | CAS |
|  |  |  | **TOTAL** | **19.5** | | **11.3** | **15** |  |  |  |
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| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 1 | 2 | FIL 012 | FILIPINO 2 | 3 | |  | 2 | FIL 011 |  | CAS |
| 1 | 2 | ENG 012 | ENGLISH FOR ACADEMIC STUDIES 2 | 3 | |  | 2 | ENG 011 |  | CAS |
| 1 | 2 | DRAW 016L | COMPUTER-AIDED DRAFTING AND DESIGN (LAB) |  | | 3 | 1 | DRAW 015W |  | CAS |
| 1 | 2 | MATH 012 | PLANE AND SPHERICAL TRIGONOMETRY 1 | 4.5 | |  | 3 | MATH 011 |  | CAS |
| 1 | 2 | MATH 017 | SOLID MENSURATION | 4.5 | |  | 3 |  |  | CAS |
| 1 | 2 | ME 101 | ENGINEERING MATERIALS | 4.5 | |  | 3 | CHM 015 |  | MITL |
| 1 | 2 | CHM 015L | CHEMISTRY (LAB) |  | | 3 | 1 |  | CHM 015 | CAS |
| 1 | 2 | PE 022 | PHYSICAL EDUCATION 2 |  | | 2.25 | (1.5) | PE 021 |  | CAS |
|  |  |  | **TOTAL** | **19.5** | | **8.3** | **15** |  |  |  |
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| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 1 | 3 | FIL 013 | FILIPINO 3 | 3 | |  | 2 | FIL 012 |  | CAS |
| 1 | 3 | ENG 013 | ENGLISH FOR ACADEMIC STUDIES 3 | 3 | |  | 2 | ENG 012 |  | CAS |
| 1 | 3 | IT 012L | I.T. FUNDAMENTALS 3 (LAB) |  | | 3 | 1 | IT 011L |  | CIT |
| 1 | 3 | ME 104P | MACHINE SHOP 1 (PAIRED) | 1.5 | | 9 | 3 | ME 101 |  | MITL |
| 1 | 3 | MARE101 | INTRODUCTION TO NAVAL ARCHITECTURE | 3 | |  | 2 | DRAW 016,MT101P |  | CMET |
| 1 | 3 | CHM 017 | INDUSTRIAL CHEMISTRY | 3 | |  | 2 | CHM 015,CHM 015L |  | CAS |
| 1 | 3 | MATH 013 | ANALYTIC GEOMETRY | 4.5 | |  | 3 | MATH 011, MATH 012 |  | CAS |
| 1 | 3 | PE 023 | PHYSICAL EDUCATION 3 |  | | 2.25 | (1.5) |  |  | CAS |
|  |  |  | **TOTAL** | **18** | | **14.3** | **15** |  |  |  |
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| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 1 | 4 | SS 020 | GENERAL PSYCHOLOGY, PADAMS, AIDS PREVENTION | 9 | |  | 3 | FIL 012 |  | CAS |
| 1 | 4 | EC 011 | STCW'78 as amended and The MARITIME LABOR CONVENTION of 2006 | 6 | |  | 2 | ENG 012 |  | CAS |
| 1 | 4 | MT 131P | BASIC SAFETY | 3 | | 6 | 3 | IT 011L |  | CMET |
|  |  |  | **TOTAL** | **18** | | **6** | **8** |  |  |  |
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| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 2 | 1 | ENG 017 | MARINE VOCABULARY AND TERMS (MARITIME ENGLISH) | 4.5 | |  | 3 | ENG 013 |  | CAS |
| 2 | 1 | MATH 020 | BASIC CALCULUS | 4.5 | |  | 3 | MATH 011,MATH 012 |  | CAS |
| 2 | 1 | EE 151 | ELECTROTECHNOLOGY 1 | 3 | |  | 2 |  |  | MITL |
| 2 | 1 | EE 151L | ELECTROTECHNOLOGY 1 (LAB) |  | | 3 | 1 |  | EE 151 | MITL |
| 2 | 1 | ME 104-1P | MACHINE SHOP 2 (PAIRED) | 1.5 | | 9 | 3 | ME 104P |  | MITL |
| 2 | 1 | EC 012 | SHIP MANAGEMENT SYSTEMS | 3 | |  | 2 |  |  | CMET |
| 2 | 1 | MARE 111 | WATCHKEEPING FOR ENGINE OFFICERS | 1.5 | |  | 1 | ME 105, ME 162 |  | CMET |
| 2 | 1 | NSTP 011 | NSTP 1 |  | | 3 | -2 |  |  | CAS |
| 2 | 1 | PE 024 | PHYSICAL EDUCATION 4 |  | | 2.25 | (1.5) | PE 023 |  | CAS |
|  |  |  | **TOTAL** | **18** | | **17.3** | **15** |  |  |  |
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| 2 | 2 | IT 013L | IT FUNDAMENTALS 3 (Lab |  | | 3 | 1 | IT 012L |  | CIT |
| 2 | 2 | ENG 016 | ENGLISH AT THE WORKPLACE | 4.5 | |  | 3 | ENG 013 |  | CAS |
| 2 | 2 | PHY 001 | PHYSICS 1 | 4.5 | |  | 3 |  |  | CAS |
| 2 | 2 | PHY 001L | PHYSICS 1 (LAB) |  | | 3 | 1 |  | PHY 001 | CAS |
| 2 | 2 | ME 104-2P | MACHINE SHOP 3 (PAIRED) | 1.5 | | 3 | 3 | ME 104-1P |  | MITL |
| 2 | 2 | EE 152 | ELECTROTECHNOLOGY 2 | 4.5 | |  | 3 | EE 151 |  | MITL |
| 2 | 2 | EE 152L | ELECTROTECHNOLOGY 2 (LAB) |  | | 3 | 1 | EE 151,EE 151L | EE 152 | MITL |
| 2 | 2 | NSTP 012 | NATIONAL SERVICE TRAINING PROGRAM 2 |  | | 3 | -2 |  |  | CAS |
| 2 | 2 | PE 025 | PHYSICAL EDUCATION 5 |  | | 2.25 | (1.5) | PE 024 |  | CAS |
| 2 | 2 | VE 012 | VALUES EDUCATION 2 | 1.5 | |  | (1) | VE 011 |  | CAS |
|  |  |  | **TOTAL** | **16.5** | | **17.3** | **15** |  |  |  |
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| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 2 | 3 | EC 013 | OCEAN USE MANAGEMENT | 3 | |  | 2 |  |  | CMET |
| 2 | 3 | ME 105 | AUXILIARY MACHINE 1 | 4.5 | |  | 3 | ME 104-2P,CHM 017 |  | MITL |
| 2 | 3 | ME 105L | AUXILIARY MACHINE 1 (LAB) |  | | 3 | 1 | ME 104-2P,CHM 017 | ME 105 | MITL |
| 2 | 3 | ME 162 | MARINE POWER PLANT - DIESEL | 4.5 | |  | 3 |  |  | MITL |
| 2 | 3 | ME 162L | MARINE POWER PLANT - DIESEL (LAB) |  | | 3 | 1 |  | ME 162 | MITL |
| 2 | 3 | PHY 002 | PHYSICS 2 | 4.5 | |  | 3 | PHY 001 |  | CAS |
| 2 | 3 | PHY 002L | PHYSICS 2 (LAB) |  | | 3 | 1 | PHY 001,PHY 001L | PHY 002 | CAS |
| 2 | 3 | PE 025 | PHYSICAL EDUCATION 5 |  | | 2.25 | (1.5) | PE 025 |  | CAS |
| 2 | 3 | NSTP 013 | NATIONAL SERVICE TRAINING PROGRAM 3 |  | | 3 | -2 |  |  | CAS |
|  |  |  | **TOTAL** | **16.5** | | **14.3** | **14** |  |  |  |
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| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 3 | 1 | MARE 199-1R | MARE SHIPBOARD TRAINING 1 | 1/3 Year | | | 13 | EC 012 |  | CMET |
|  |  |  | **TOTAL** |  | | | **13** |  |  |  |
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| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 3 | 2 | MARE 119-2R | MARE SHIPBOARD TRAINING 2 | 1/3 Year | | | 13 | PHY 001L |  | CMET |
|  |  |  | **TOTAL** |  | | | **13** |  |  |  |
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| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 3 | 3 | MARE 199-2R | MARE SHIPBOARD TRAINING 3 | 1/3 Year | | | 14 | ME 104-1P |  | CMET |
|  |  |  | **TOTAL** |  | | | **14** |  |  |  |
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| **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 | EE 152 |  | MITL |
| 4 | 1 | EE 152 | ELECTROTECHNOLOGY 3 (LAB) |  | | 3 | 1 | EE 152,EE 152L | EE 153 | MITL |
| 4 | 1 | ME 105-1P | MECHANICS AND HYDROMECHANICS 1 | 3 | |  | 2 | PHY 002,PHY 002L |  | MITL |
| 4 | 1 | ME 111 | THERMODYNAMCIS | 3 | |  | 2 | MATH 020,ME 105L,ME 162 |  | MITL |
| 4 | 1 | MARE 121 | MARINE POLLUTION AND PREVENTION | 4.5 | |  | 3 |  |  | MITL |
| 4 | 1 | ME 105-1P | AUXILIARY MACHINERY PAIRED | 3 | | 3 | 3 | SECOND YEAR - THIRD TERM,COURSE CODE |  | MITL |
| 4 | 1 | VE 013 | VALUES EDUCATION 3 | 1.5 | |  | (1) | VE 011 |  | CAS |
| 4 | 1 | MARE 198 | MARE CORRELATION 1 |  | | 3 | (1) | PHY 002, PHY 002L, MATH 020 |  | CMET |
|  |  |  | **TOTAL** | **19.5** | | **9** | **14** |  |  |  |
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| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
| 4 | 2 | EC 016 | SHIP AUDITING SYSTEM | 3 | |  | 2 |  |  | CMET |
| 4 | 2 | ME 112-1 | ADVANCED THERMODYNAMICS | 3 | |  | 2 | ME 111-1 |  | MITL |
| 4 | 2 | ME 106-1 | MECHANICS AND HYDRODYNAMICS 2 | 3 | |  | 2 | ME 106 |  | MITL |
| 4 | 2 | ECE 132L | MARINE AUTOMATION | 4.5 | |  | 3 | EE 153 |  | MITL |
| 4 | 2 | ECE 132L | MARINE AUTOMATION (LAB) |  | | 3 | 1 | EE 153, EE 153L | ECE 132 | MITL |
| 4 | 2 | ME 163 | MARINE POWER PLANT - STEAM | 4.5 | |  | 3 | ME 162 |  | MITL |
| 4 | 2 | ME 163L | MARINE POWER PLANT - STEAM (LAB) |  | | 3 | 1 | ME 162,ME 162L | ME 163 | MITL |
|  |  |  | **TOTAL** | **18** | | **6** | **14** |  |  |  |
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| **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 |  |  | CMET |
| 4 | 3 | MT 162 | SHIPBOARD PERSONNEL MANAGEMENT | 4.5 | |  | 3 |  |  | CMET |
| 4 | 3 | ECE 133 | MARINE AUTOMATION (L) INSTRUMENTATION AND CONTROL | 4.5 | |  | 3 | ECE 132 |  | CMET |
| 4 | 3 | MARE 160 | INTRODUCTION TO SHIP BUSINESS MANAGEMENT | 4.5 | |  | 3 |  |  | CMET |
| 4 | 3 | SS 019 | PHILIPPINE HISTORY, GOVERNMENT & CONSTITUTION | 4.5 | |  | 3 |  |  | CAS |
| 4 | 3 | VE 014 | VALUES EDUCATION 4 | 1.5 | |  | (1) | VE 011 |  | CAS |
| 4 | 3 | MARE 198-2 | MARE CORRELATION 2 |  | | 3 | (1) | MARE 198-1, ME 112-1 |  | CMET |
|  |  |  | **TOTAL** | **24** | | **3** | **15** |  |  |  |
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| **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 | 6 | |  | 2 |  |  | CMET |
| 4 | 4 | EC 015 | LEADERSHIP and MANAGEMENT FOR MARITIME OFFICERS | 6 | |  | 2 |  |  | CMET |
| 4 | 4 | SS 014 | JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM | 9 | |  | 3 |  |  | CAS |
| 4 | 4 | HUM 018 | CONTEMPORARY WORLD GEOGRAPHY AND CULTURE | 9 | |  | 3 |  |  | CAS |
|  |  |  | **TOTAL** | **24** | |  | **10** |  |  |  |
|  |  |  |  |  | |  |  |  |  |  |
| **TECHNICAL ELECTIVES** | | | | | | | | | | |
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| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
|  |  | CS 100 | INTRODUCTION TO COMPUTER SYSTEMS | 4.5 | |  | 3 |  |  | CIT |
|  |  | MARE 160 | INTRODUCTION TO SHIP BUSINESS MANAGEMENT | 4.5 | |  | 3 |  |  | CMET |
|  |  | MARE 161 | INTRODUCTION TO MARINE SURVEYING | 4.5 | |  | 3 |  |  | CMET |
|  |  |  | **TOTAL** | **13.5** | |  | **9** |  |  |  |
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| **Year** | **Term** | **Code** | **Title** | **Lec Hrs** | | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
|  |  | HUM 018 | CONTEMPORARY WORLD GEOGRAPHY AND CULTURE | 4.5 | |  | 3 |  |  | CAS |
|  |  |  | **TOTAL** | **4.5** | |  | **3** |  |  |  |
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| **SOCIAL SCIENCE ELECTIVES** | | | | | | | | | | |
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| **Year** | **Term** | **Code** | **Title** | | **Lec Hrs** | **Lab Hrs** | **Total Units** | **Prerequisites** | **Co-requisites** | **Servicing College/Dept.** |
|  |  | SS 020 | GENERAL PSYCHOLOGY, PADAMS,AIDS, FAMILY PLANNING | | 4.5 |  | 3 |  |  | CAS |
|  |  | SS 014 | JOSE RIZAL AND THE DEVELOPMENT OF FILIPIN0 NATIONALISM | | 4.5 |  | 3 |  |  | CAS |
|  |  | SS 019 | PHILIPPINE HISTORY, GOVERNMENT AND CONSTITUTION | | 4.5 |  | 3 |  |  | CAS |
|  |  |  | **TOTAL** | |  |  |  |  |  |  |