**MDE- Industrial Design Specialization**

**Environmental Literacy “E” Course Second Language Requirement W Requirement**

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| **First Semester** | **Second Semester** |
| CHEM 1127Q General Chemistry I (4 Credits) | CHEM 1128Q General Chemistry II (4 Credits) |
| MATH 1131Q Calculus I (4 Credits) | MATH 1132Q Calculus II (4 Credits ) |
| CSE 1010 Intro to Computer Programming (3 Credits) | ENGR 1166 Foundations of Engineering (3 Credits) |
| ENGR 1000 Orientation to Engineering (1 Credit) | GEN ED (3 Credits) |
| ENGL 1007 First-year Writing (4 Credits) | Area Elective (3 Credits) Art3701 – Materials and Techniques |
| **16 credits** | **17 credits** |

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| **Third Semester** | **Fourth Semester** |
| PHYS 1501Q Engineering Physics I (4 Credits) | PHYS 1502Q Engineering Physics II (4 Credits) |
| MATH 2110Q Multivariable Calculus (4 Credits) | MATH 2410Q Differential Equations (3 Credits) |
| CHEG 2103 Intro to CHEG (3 Credits) | CE 2110 Mechanics I (3 Credits) |
| MSE 2001/2101 Intro to MSE I (3 Credits) | MSE 2002/MSE 2102 Intro to MSE II (3 Credits) |
| Area Elective (3 Credits) Art3710-Drawing & Modeling for Design | Area Elective (3 Credits) Art3705-Form, Structure and Space |
| **17 credits** | **16 credits** |

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| **Fifth Semester** | **Sixth Semester** |
| CE/ENVE 3120 Fluid Mechanics (4 Credits) | STAT 3025Q Statistical Methods (3 Credits) |
| ECE 2001 Electrical Circuits (4 Credits) | CE 3110 Mechanics of Materials (3 Credits) |
| ENGR Thermal Science Elective[[1]](#footnote-1) (3 Credits) | GEN ED (3 Credits) |
| PHIL 1104 Ethics (3 Credits) | GEN ED (3 Credits) |
| Area Elective (3 Credits) Art 3735/ME2140 SolidWorks for Industrial Design | Area Elective (3 Credits) Art3720-Process and Practice |
| **17 credits** | **15 credits** |

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| **Seventh Semester** | **Eighth Semester** |
| ENGR 4001 General Design I (3 Credits) | ENGR 4002W General Design II (3 Credits) |
| ENGR 2XXX Engineering Elective 2000+ (3 Credits) | ENGR 3XXX Engineering Elective 3000+ (3 Credits) |
| ENGR 3XXX Engineering Elective 3000+ (3 Credits) | GEN ED (3 Credits) |
| GEN ED (3 Credits) | Area Elective (3 Credits) |
| Area Elective (3 Credits) Art3725-Process and Practice II (in process for C&C) | Area Elective (3 Credits) |
| **15 credits** | **15 credits** |

**Total Credits: 128**

1. Thermal Science Requirement: ME 2233 (Fall/Spring), MSE 3001 (Fall) or CHEG 2111 (Spring) [↑](#footnote-ref-1)