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| **Course**  **No.** | **Title** | **Credits** | **Pre-requisites** |
| **Core ENVE Courses** | | | |
| ENVE 111 | Introduction to Environmental  Engineering | 1 | None |
| ENVE 211 | Design and Analysis for Environmental  Engineers | 1 | None |
| ENVE 250 | Fundamentals of Environmental  Engineering | 3 | ENVE 211, MATH 165 |
| ENVE 350 | Microbiological Principles for  Environmental Engineers | 3 | ENVE 250 |
| ENVE 360 | Environmental Chemistry for Water  and Wastewater | 3 | Co-req. CHEM 240 |
| ENVE 370 | Sustainability Engineering | 3 | ENVE 250 |
| ENVE 412 | Unit Operations and Processes | 2 | ENVE 360, CE 309 |
| ENVE 450 | Environmental Engineering Chemistry  Laboratory | 1 | ENVE 360, co-req. ENGL 321 |
| ENVE 460 | Environmental Fate and Transport | 3 | ENVE 360, CE 309 |
| ENVE 473 | Air Pollution | 3 | ENVE 460, ENVE 412 |
| ENVE 488 | Senior Design I | 2 | ENVE 412 and consent of instructor |
| ENVE 489 | Senior Design II | 2 | ENVE 488 |
| **Core CE Courses** | | | |
| CE 212 | Graphical Communication | 3 | None |
| CE 309 | Fluid Mechanics | 3 | ME 222 |
| CE 310 | Fluid Mechanics Laboratory | 1 | CE 309 |
| CE 316 | Soil Mechanics | 3 | ME 222, ME 223, co-req. MATH 266 |
| CE 408 | Water Resources and Supply | 3 | CE 309 |
| CE 410 | Water and Wastewater Engineering | 3 | Co-req. ENVE 412 |
| CE 477 | Applied Hydrology | 3 | CE 408 |
| CE 472 | Solid and Hazardous Waste  Management | 3 | ENVE 250 |
| **Core Math Courses** | | | |
| MATH 128 | Introduction to Linear Algebra | 1 | MATH 105 or 107 |
| MATH 165 | Calculus I | 4 | MATH 105 or 107 |
| MATH 166 | Calculus II | 4 | MATH 165 |
| MATH 259 | Multivariate Calculus | 3 | MATH 166 |
| MATH 266 | Introduction to Differential Equations | 3 | MATH 259 |

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| **Course No.** | **Title** | **Credits** | **Pre-requisites** |
| **Core ME Courses** | | | |
| ME 221 | Engineering Mechanics I | 3 | MATH 165 |
| ME 222 | Engineering Mechanics II | 3 | MATH 166, ME 221 |
| ME 223 | Mechanics of Materials | 3 | ME 221 |
| **Core IME Courses** | | | |
| IME 440 | Engineering Economy | 2 | Junior standing |
| IME 460 | Evaluation of Engineering Data | 3 | Co-req. MATH 166 |
| **Other Core Courses** | | | |
| CHEM 121 | General Chemistry I | 3 | Co-req. MATH 103 or MATH 107 or  math placement |
| CHEM 121L | General Chemistry I Laboratory | 1 | Co-req. MATH 103 or MATH 107 or  Math placement |
| CHEM 122 | General Chemistry II | 3 | CHEM 121 |
| CHEM 122L | General Chemistry II Laboratory | 1 | CHEM 121L |
| ENGL 321 | Writing in the Technical Professions | 3 | ENLG 102, Junior Standing |
| ENGR 327 | Ethics, Engineering, and Technology | 3 | None |
| GEOL 105 | Physical Geology | 3 | None |
| PHYS 252 | University Physics II | 4 | ME 222, Co-req. MATH 166 |