**A.S. in Engineering**

Catalog Year 2023-2024

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Grade/SemesterCompleted |   |  Course # |   |  Course Title |  Cr |
|  |  | **First Semester** |
| / |   | SDV 101  |   | Orientation to Engineering | 1 |
| / |   | ENG 111 |   | College Composition I | 3 |
| / |   | MTH 263 |   | Calculus I | 4 |
| / |   | CHM 111 |   | General Chemistry I | 4 |
| / |   | EGR 121 |   | Foundations of Engineering  | 2 |
| / |   | EGR 125 |   | Introduction to Computer Programming for Engineers | 4 |
|   |   |   |   |  **Total** |  **18** |
|  |  | **Second Semester** |
| / |   | ENG 112 |   | College Composition II | 3 |
| / |   | MTH 264 |   | Calculus II | 4 |
| / |   | EGR 122 |   | Engineering Design | 3 |
| / |   | CHM 112 **OR** MTH 266 |   | General Chemistry II or Linear Algebra | 3-4 |
| / |   | EGR 240 |   | Statics | 3 |
|  |   |  |   |  **Total** | **16-17** |
|  |  | **Third Semester** |
| / |   | MTH 267 |   | Differential Equations | 3 |
| / |   | PHY 241 |   | University Physics I  | 4 |
| / |   | EGR 245 |   | Dynamics  | 3 |
| / |   | HIS |   | History Elective | 3 |
| / |   | PHI 220 |   | Ethics and Society | 3 |
|   |   |   |   |  **Total** | **16** |
|  |  | **Fourth Semester** |
| / |   | MTH 265 |   | Calculus III  | 4 |
| / |   | PHY 242 |   | University Physics II  | 4 |
| / |   | EGR 246 |   | Mechanics of Materials | 3 |
| / |   | ECO 202 |   | Principles of Microeconomics | 3 |
| / |   |  |   | Humanities Elective  |  3 |
|  |  |  |  |  **Total** | **17** |
| **Total Completed** |   |   |   |  | **67-68** |

*\*Students who are not prepared for Calculus should begin with Precalculus with Trigonometry (MTH 167) and should also consider following a three- or four-year sequence to complete this program.*

*\*\*Students may substitute college-level engineering or supportive discipline courses for engineering disciplines, such as electrical engineering. Substitutions must be approved by the division dean and engineering faculty.*