**A.S. in Engineering**

Catalog Year 2023-2024

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Grade/Semester  Completed | |  | | 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.*