**A.S. in Engineering**

Catalog Year 2020-2021

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Grade/Semester  Completed | |  | | Course # |  | Course Title | Cr |
|  |  | | **General Education** | | | | |
| / | |  | | SDV 101 |  | Orientation to Engineering | 1 |
| / | |  | | ENG 111 |  | College Composition I | 3 |
| / | |  | | ENG 112 |  | College Composition II | 3 |
| / | |  | | HLT/PED |  | Approved Wellness Elective | 1 |
|  | |  | |  |  |  |  |
|  |  | | **Natural Science and Mathematics** | | | | |
| / | |  | | CHM 111 |  | College Chemistry I | 4 |
| / | |  | | CHM 112 |  | College Chemistry II | 4 |
| / | |  | | MTH 263 |  | \*Calculus I | 4 |
| / | |  | | MTH 264 |  | \*Calculus II | 4 |
| / | |  | | MTH 265 |  | Calculus III | 4 |
| / | |  | | MTH 267 |  | Differential Equations | 3 |
| / | |  | | MTH 295 |  | \*Topics in Calculus | 2 |
| / | |  | | PHY 241 |  | General University Physics I | 4 |
| / | |  | | PHY 242 |  | General University Physics II | 4 |
|  | |  | |  |  |  |  |
|  |  | | **Engineering Core** | | | | |
| / | |  | | EGR 120 |  | Introduction to Engineering | 2 |
| / | |  | | EGR 126 |  | Computer Programming for Engineers | 3 |
| / | |  | | EGR 140 |  | Engineering Mechanics – Statics | 3 |
| / | |  | | EGR 245 |  | \*\*Engineering Mechanics – Dynamics | 3 |
| / | |  | | EGR 246 |  | \*\*Mechanics of Materials | 3 |
|  | |  | |  |  |  |  |
|  |  | | **Open Electives** | | | | |
|  | |  | |  |  |  |  |
| / | |  | |  |  | Humanities Elective I | 3 |
| / | |  | |  |  | Humanities Elective II | 3 |
| / | |  | |  |  | Social Science Elective I | 3 |
| / | |  | |  |  | Social Science Elective II | 3 |
|  | |  | |  |  |  |  |
| Total Completed | |  | |  |  |  | 67 |

***\** Students who are not prepared for Calculus should begin with Precalculus with Trigonometry (MTH 166) 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.**