**A.S. in Engineering**

Catalog Year 2020-2021

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Grade/SemesterCompleted |   |  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.**