This degree program is designed to prepare students to transfer to a four-year college or university to earn a bachelor's degree in engineering. This degree program provides appropriate preparation for continued study toward careers in mechanical, chemical, civil, industrial, ceramic, aerospace, nuclear, environmental, or metallurgical engineering. Program completion will require students to attend some classes on the Jamestown Campus.

| REQUIRED COURSES | CR | JCC | SUNY | LAS |
| :---: | :---: | :---: | :---: | :---: |
| ENR 1560: Introduction to Engineering \& Engineering Design | 4 | Inquiry-Critical \& Integrative Reasoning |  | X |
| ENG 1510: English Composition I | 3 | College Composition | HUMN | H |
| ENG 1530: English Composition II | 3 | College Comp \& Oral Communication | COMW \& COMO | H |
| MAT 1710: Calculus and Analytic Geometry I | 4 | SUNY Mathematics \& Quantitative Reasoning | MATH | N |
| CHE 1550: General Chemistry I | 4 | SUNY Natural Science \& Scientific Reasoning | NSCI | N |
| Social Sciences Elective - SUNY Gen Ed | 3 | SUNY Social Science | SOSC | S |
| ENR/PHY 2510: Thermodynamics | 4 | Applied Learning | NSCl | N |
| CSC 1610: Computer Programming for Scientists \& Engineers | 3 |  |  | N |
| ENR 2550: Mechanics - Statics | 3 |  |  | N |
| ENR 2560: Mechanics - Dynamics | 3 |  |  | N |
| ENR 2740: Analysis of Linear Electrical Circuits | 3 |  |  | N |
| MAT 1720: Calculus and Analytic Geometry II | 4 |  | MATH | N |
| MAT 2650: Calculus and Analytic Geometry III | 4 |  | MATH | N |
| MAT 2680: Ordinary Differential Equations | 3 |  | MATH | N |
| PHY 1710: Analytical Physics I | 4 |  | NSCl | N |
| PHY 2710: Analytical Physics II | 4 |  | NSCl | N |
| Program Core Electives <br> choose 2 from the following: MAT 2670, ENR 2580, CHE 1560, CHE 2530 | 7 |  |  | N |
| Open Electives <br> up to 3 credits may need to be SUNY Gen ed- category specific and may need to fill JCC Essentials Global Perspective, Cultural Understanding, and Diversity requirements. | 3 | Global Perspectives, Cultural Understanding, \& Diversity | DIVE | X |
| TOTAL CREDITS: 66 |  |  | 43 | 66 |

## IMPORTANT POINTS:

- Students in this program are required to fill only 5 of the 10 SUNY Gen Ed categories with a total of 30 credits. The 5 categories must include Communication (Written \& Oral), DEISJ, Mathematics, and Natural Sciences. All other programs require 7 of 10 categories and 30 credits.
- Choosing electives carefully, with the help of an advisor, students can complete a focus in aerospace/mechanical, biomedical/ chemical, civil, environmental, or industrial engineering.

