

## CUNY PATHWAYS – Electrical Engineering (AS)

| REQUIRED COMMON CORE   |                                  | CREDITS   |
|--|----------------------------------|-----------|
| English Composition  |                                  | 6         |
| Mathematical and Quantitative Reasoning  |                                  | 4         |
| MAT 210 Required   |                                  |           |
| Life and Physical Sciences   |                                  | 4         |
| CHE 210 Required   |                                  |           |
|  |                                  |           |
| FLEXIBLE COMMON CORE   |                                  |           |
| World Cultures and Global Issues   |                                  | 3         |
| U.S. Experience in Its Diversity   |                                  | 3         |
| Creative Expression  |                                  | 3         |
| Individual and Society   |                                  | 3         |
| Scientific World   |                                  | 4         |
| CHE 220 Required   |                                  |           |
| One (1) additional course from the Scientific World  |                                  | 4         |
| PHY 210 Required   |                                  |           |
|  |                                  |           |
| MAJOR REQUIREMENTS   |                                  |           |
| CSC 215  | Modern Programming               | 3         |
| MAT 220  | Calculus II                      | 4         |
| MAT 310  | Calculus III                     | 4         |
| MAT 320  | Linear Algebra & Vector Analysis | 3         |
| MAT 360  | Differential Equations           | 3         |
| PHY 220  | Physics II                       | 4         |
| ENG 202  | Technical Writing                | 3         |
| ENGR 103   | Tools for Engineering            | 2         |
| ENGR 204   | Electrical Circuits              | 3         |
| <b>Total Credits for Degree</b>  |                                  | <b>63</b> |
| <p>Note: The program has received a waiver to specify particular courses students must take in STEM areas of the Common Core. If students take different courses in these areas, they will be certified as having completed the Common Core area, but it may not be possible for them to finish their degree program within the regular number of credits.</p> |                                  |           |

[Click here for a list of all Common Core Courses](#)