

**Howard Community College A.A. Electrical Engineering
to Excelsior College B.S. Electrical Engineering Technology
Electronics Concentration**

Revision: March 2013

This program plan outlines how students can transfer from the **Howard Community College A.A. A.A. Electrical Engineering** program to the **Excelsior College B.S. Electrical Engineering Technology with the Electronics Concentration** program. Upon completion of the **A.A. Electrical Engineering**, the following credits will apply for students enrolling in the **B.S. Electrical Engineering Technology with the Electronics Concentration** program.

| Howard Community College Credits | Semester Hours | Excelsior College Requirements | Semester Hours |
|---|-----------------------|--|-----------------------|
| ENGL 121: College Composition | 3 | Written English | 3 |
| PHIL 103: Introduction to Ethics (Humanities Core) | 3 | Ethics | 3 |
| Arts or Literature Core Course | 3 | Humanities Elective | 3 |
| Social and Behavioral Sciences Core Courses | 6 | Social Science/History | 6 |
| CHEM 135: Chemistry for Engineers ³ OR CHEM 101: General Inorganic Chemistry I | 3 | Natural Science/Math electives | 3 |
| PHYS 110: General Physics I (Calculus) | 4 | Physics I and Physics Lab | 4 |
| PHYS 111: General Physics II (Calculus) | 4 | Physics II | 4 |
| MATH 181: Calculus I | 4 | Calculus I | 4 |
| ENES 100: Intro to Engineering Design | 3 | Free Electives | 3 |
| ENES 150: Intermediate Programming Concepts for Engineers | 3 | Programming | 3 |
| ENES 205: Electric Circuits | 4 | Circuit Theory I and one core/traditional lab | 4 |
| ENES 222: Elements of Discrete Signal Analysis | 4 | Technology Electives | 4 |
| ENES 244: Digital Logic Design | 3 | Digital Electronics | 3 |
| ENES 245: Digital Circuits and Systems Laboratory | 2 | Technology Electives and traditional lab | 2 |
| MATH 182: Calculus II | 4 | Calculus II | 4 |
| MATH 240: Calculus III | 4 | Mathematics Electives | 4 |
| MATH 260: Differential Equations | 3 | Differential Equations | 3 |
| PHYS 112: General Physics III (Calculus) | 3 | Arts and Science Electives | 3 |
| | | | |
| | | | |
| | | | |
| Total Credits Required for Associate's | 63 | Total Credits Accepted From Associate's | 63 |

Credits Beyond The Associate's That Can Be Transferred OR Taken At Excelsior

| Howard Community College Credits | Semester Hours | Excelsior College Requirements |
|---|-----------------------|---------------------------------------|
| SPCH 105: Fund. of Public Speaking or SPCH 110: Interpersonal Communication | 3 | Communications |
| Social Science/History | 3 | Social Science/History |
| Arts and Science Electives | 7 | Arts and Science Electives |
| Any academic area | 3 | Free Electives |

| | |
|---------------------------------|-----------|
| Total Additional Credits | 19 |
|---------------------------------|-----------|

| Credits To Be Taken At Excelsior College * | |
|---|-----------------------|
| Excelsior College Requirements | Semester Hours |
| ENG*102: Composition II | 3 |
| ELEC*152: Circuit Theory II | 4 |
| ELEC*160: Electronics I | 4 |
| ELEC*161: Electronics II | 4 |
| ELEC*202: Microprocessors | 4 |
| ELEC*495: Integrated Technology Assessment | 3 |
| ELEC*331: Digital and Analog Communications | 3 |
| ELEC*306: Advanced Digital Design | 3 |
| IT*350: Business Data Communications | 3 |
| ELEC*321: Control Systems | 3 |
| ELEC*307: Microcontrollers | 3 |
| Technology Electives | 4 |
| INL*102: Information Literacy | 1 |
| Total Credits | 42 |

* The above credits (with the exception of the **Capstone** course) may also be transferred in or taken at another 4-year regionally accredited institution.

| Evaluation Summary | Semester Hours |
|---|-----------------------|
| Credits Accepted from Associate's Degree | 63 |
| Additional Credits Beyond the Associate's Degree | 19 |
| Credits from Excelsior * | 42 |
| Total Credits Required for Bachelor's Degree | 124 |

* Students are required to take a minimum of **12.00 credits** from Excelsior to qualify for partner pricing.

NOTE: Excelsior College reviews every student individually and this guide is just a sample scenario. Actual requirements will be dependent on the courses a student transfers to Excelsior.