

**Montgomery College A.S. Electrical Engineering
to Excelsior College B.S. Electrical Engineering Technology with a concentration in Electronics**

Revision: June 2014

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

| Montgomery College Credits | Semester Hours | Excelsior College Requirements | Semester Hours |
|--|-----------------------|--|-----------------------|
| CHEM 135: General Chemistry for Engineers | 4 | Natural Science/Math elective | 4 |
| ENGL 102: Critical Reading, Writing, and Research | 3 | Written English | 3 |
| ENES 100: Introduction to Engineering Design | 3 | Free Elective | 3 |
| ENEE 140: Introduction to Programming Concepts for Engineers | 2 | Technology Elective | 2 |
| MATH 181: Calculus I | 4 | Calculus I | 4 |
| ENEE 150: Intermediate Programming Concepts for Engineers | 3 | Computer Programming | 3 |
| ENEE 244: Digital Logic Design | 3 | Digital Electronics | 3 |
| MATH 182: Calculus II | 4 | Calculus II | 4 |
| PHYS 161: General Physics | 3 | Physics I | 3 |
| Behavioral and Social Sciences Distribution | 3 | Social Science/History | 3 |
| Health Foundation | 1 | Free Elective | 1 |
| ENEE 222: Elements of Discrete Signal Analysis | 4 | Technology Elective and Traditional Lab | 4 |
| MATH 280: Multivariable Calculus | 4 | Arts and Science Electives | 4 |
| PHYS 262: General Physics II | 4 | Physics II and Physics Lab | 4 |
| Arts Distribution | 3 | Humanities | 3 |
| Humanities | 3 | Humanities | 3 |
| ENEE 207: Electric Circuits | 4 | Circuit Theory I | 4 |
| ENEE 245: Digital Circuits and Systems Laboratory | 2 | Technology Elective and Traditional Core Lab | 2 |
| MATH 282: Differential Equations | 3 | Differential Equations | 4 |
| PHYS 263: General Physics III | 4 | Arts and Science Electives | 4 |
| Behavioral and Social Sciences Distribution | 3 | Social Science/History | 3 |
| Total Credits Required for Associate's | 67 | Total Credits Accepted From Associate's | 68 |

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

| Montgomery College Credits | Semester Hours | Excelsior College Requirements |
|--|----------------|--------------------------------|
| ENGL 101: Intro to College Writing | 3 | Written English |
| COMM 108: Human Communication OR COMM 112: Business and Professional Speech Communication | 3 | Communications |
| Social Science/History Electives | 3 | Social Science/History |
| PHIL 140: Intro to the Study of Ethics | 3 | Ethics |
| Arts and Sciences Electives | 2 | Arts and Sciences Electives |
| Any college level credit | 2 | Free Electives |
| Total Additional Credits | 16 | |

Credits To Be Taken At Excelsior College *

| Excelsior College Requirements | Semester Hours |
|---|----------------|
| ELEC*153: Circuit Theory II | 4 |
| ELEC 160: Electronics I | 4 |
| ELEC 161: Electronics II | 4 |
| ELEC 202: Microprocessors | 4 |
| IT 390: Project Management | 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 | 2 |
| ELEC 495: Integrated Technology Management <i>The Capstone MUST be completed at Excelsior</i> | 3 |
| INL 102: Informtaion Literacy | 1 |
| Total Credits | 40 |

* 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 | 68 |
| Additional Credits Beyond the Associate's Degree | 16 |
| Credits from Excelsior * | 40 |
| 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.