

**Cayuga Community College A.A.S. Electrical Technology - Electronics
to Excelsior College B.S. Electrical Engineering Technology (Electronics Concentration)**
Revision: June 2016

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

| Cayuga Community College Credits | Semester Hours | Excelsior College Requirements | Semester Hours |
|---|-----------------------|--|-----------------------|
| ENGL 101: Freshman English I | 3 | Written English | 3 |
| ELEC 101: Electrical Circuits | 4 | Not Applicable | 0 |
| ELEC 105: Introduction to Digital Computers | 4 | Not Applicable | 0 |
| Math Elective (MATH 214 Statistics recommended) | 3 | MATH 214 counts toward Math above College Alg. | 3 |
| Health or Physical Education | 1 | Free Elective | 1 |
| ENGL 102: Freshman English II OR ENGL 270: Technical Writing | 3 | ENGL 102 Recommended - Written English | 3 |
| ELEC 102: Basic Electronics | 4 | Not Applicable | 0 |
| ELEC 107: Fund. Of Microcomputers | 4 | Not Applicable | 0 |
| MATH 114: Applied Mathematics OR MATH 104: College Algebra & Trig (or higher) | 3 | Math or Natural Science Elective | 3 |
| CS 200: Programming in Visual Basic OR CS 222: Programming in C/C++ | 3 | Computer Programming | 3 |
| ELEC 201: Intermediate Electronics | 4 | Not Applicable | 0 |
| ELEC 209: Programmable Logic Controllers | 3 | Not Applicable | 0 |
| ENGR 207: Quality Assurance | 3 | Free Elective | 3 |
| PHYS 103: General Physics I | 4 | Physics I and Lab | 4 |
| Technical Elective (recommend CS 180 Principles of Data Communications) | 3 | Data Communications concentration requirement | 3 |
| ELEC 204: Industrial Electronics | 4 | Technical Elective | 4 |
| ELEC 208: Radio Frequency Communications | 4 | Not Applicable | 0 |
| PHYS 104: General Physics II | 4 | Physics II | 4 |
| Behavioral/Social Sciences | 3 | Social Sciences | 3 |
| Total Credits Required for Associate | 64 | Total Credits Accepted From Associate | 37 |

* Excelsior College requires math courses at the level of college algebra or above. The Cyber Operations and Information Technology program includes a Statistics requirement. Depending on what the student takes at their home institution, they will need the other requirement for Excelsior College.

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

| Cayuga Community College Credits | Semester Hours | Excelsior College Requirements |
|---|-----------------------|---|
| PHIL 105 Ethics | 3 | Ethics |
| MATH 106 Pre-Calculus | 3 | 3 credits in Math at College Algebra or above |
| MATH 108 Calculus I | 4 | Calculus I |
| Social Science Electives | 6 | Social Sciences |
| Humanities Elective | 3 | Humanities Elective |
| ENGL 270 Technical Writing | 3 | Communications |
| Arts & Science Electives | 11 | Arts & Science Electives |
| BUS 260 Project Management | 3 | Project Management |
| Free Electives | 2 | Free Electives |

| | |
|---------------------------------|-----------|
| Total Additional Credits | 38 |
|---------------------------------|-----------|

* Excelsior College requires math courses at the level of college algebra or above. The Cyber Operations and Information Technology program includes a Statistics requirement. Depending on what the student takes at their home institution, they will need the other requirement for Excelsior College.

| Credits To Be Taken At Excelsior College * | |
|--|-----------------------|
| Excelsior College Requirements | Semester Hours |
| INL 102: Information Literacy | 1 |
| TECH 202 Foundations of Technology Problem Solving II | 4 |
| ELEC 152 Circuit Theory I | 4 |
| ELEC 153 Circuit Theory II | 4 |
| ELEC 160 Electronics I | 4 |
| ELEC 161 Electronics II | 4 |
| ELEC 201 Digital Electronics | 4 |
| ELEC 202 Microprocessors | 4 |
| ELEC 331 Digital and Analog Communications | 3 |
| ELEC 306 Advanced Digital Design | 3 |
| ELEC 321 Control Systems | 3 |
| ELEC 307 Microcontrollers | 3 |
| Electronics Technology Electives | 5 |
| ELEC 495 Integrated Technology Assessment: Capstone* <i>NOTE: The Capstone MUST be completed at Excelsior</i> | 3 |
| Total Credits | 49 |

* 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 Degree | 37 |
| Additional Credits Beyond the Associate Degree | 38 |
| Credits from Excelsior * | 49 |
| 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.

What are Arts and Sciences?

We offer the following definitions to help you make these determinations. Remember, however, that before you pay to take a course or examination you should always consult with your advisor to make sure that it will help meet your degree requirements.

Humanities

Humanities subjects focus on developing knowledge and skills in critical reading, logical thought, and esthetic appreciation. Here are some subject areas typically classified as Humanities:

Art, Philosophy, Music, Foreign Language, Literature, Theater, Ethics, Speech, Religion, Communication

Social Sciences and History

Social Sciences and History subjects focus on individuals and society and the processes individuals use to order their world. Here are some subject areas typically classified as Social Sciences and History

Psychology, Economics, Sociology, Geography, Political Science, History, Anthropology

Natural Sciences and Mathematics

Natural Sciences and Mathematics subjects focus on understanding the natural world and problem-solving processes. Here are some subject areas typically classified as Natural Sciences and Mathematics.

Anatomy and Physiology, College Algebra, Microbiology, Calculus, Chemistry, Genetics, Biology, Physics