

**Erie Community College A.A.S. Nanotechnology
to Excelsior College B.S. Electrical Engineering Technology**
Revision: April 2020

This program plan outlines how students may transfer from the **Erie Community College A.A.S. Nanotechnology** program to the **Excelsior College B.S. Electrical Engineering Technology** program. Upon completion of the **A.A.S. Nanotechnology**, the following credits may apply for students enrolling in the **B.S. Electrical Engineering Technology** program.

This guide is only a sample scenario. Excelsior College reviews every student individually. Actual requirements will be dependent on the courses a student transfers and the application date with Excelsior.

Erie Community College Credits	Semester Hours	Excelsior College Requirements	Semester Hours
NS 100: Introduction to Nanotechnology	3	Technology Elective (Concentration Requirement)	3
BI 110: Biology I	3	Arts & Sciences Elective	3
BI 115: Lab for BI 110	1	N/A	0
EL 118: Electrical Circuits I	2	Circuit Theory I Requirement	2
EN 110: College Composition	3	Written English Requirement	3
MT 125: College Mathematics	4	Mathematics Requirement	4
CH 180: University Chemistry I	3	Chemistry Requirement	3
CH 181: Lab for CH 180	1	N/A	0
MT 126: College Mathematics II	4	Arts & Sciences Requirement	4
PH 270: College Physics I	3	Physics I Requirement	3
PH 271: Lab for PH 270	1	Physics Lab Requirement	1
Social Sciences or Humanities Elective	3	Social Science Requirement	3
NS 201: Materials, Safety and Equipment Overview for Nanotechnology	3	Technology Elective (Concentration Requirement)	3
EL 158: Electrical Circuits II	3	Circuit Theory I Requirement	3
EL 159: Lab for EL 158	1	Circuit Theory I Lab Requirement	1
PH 272: College Physics II	3	Physics II Requirement	3
PH 273: Lab for PH 272	1	N/A	0
Approved Elective Credit Hours (<i>Choose One from selected approved courses</i>)	4	Arts and Science Elective	4
NS 202: Basic Nanotechnology Processes	3	Technology Elective (Concentration Requirement)	3
NS 203: Characterization of Nanotechnology Structures & Materials	3	Technology Elective	3
NS 204: Materials in Nanotechnology	3	Technology Elective	3
NS 205: Patterning for Nanotechnology	3	Technology Elective	3
NS 206: Vacuum Systems and Nanotechnology Applications	3	Technology Elective	3
Total Credits Required for Associate	61	Total Credits Accepted from Associate	58

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

Erie Community College Credits	Semester Hours	Excelsior College Requirements
EN 102: Composition for the STEM Disciplines	3	Written English Requirement
Communications Elective	3	Communications Requirement
Humanities Electives	3	Humanities Requirement
PY 110: Ethics	3	Ethics Requirement
Social Sciences/History Electives	6	Social Sciences/History Requirement

MT 175: Survey of Calculus I	3	Calculus I Requirement
MT 176: Survey of Calculus II	3	Calculus II Requirement
MT 284: Differential Equations	3	Differential Equations Requirement
Arts & Sciences Electives	2	Arts & Sciences Requirement
Total Additional Credits *	29	

Credits To Be Taken At Excelsior College *

Excelsior College Requirements	Semester Hours
INL 102: Information Literacy (<i>MUST be completed with Excelsior</i>)	1
IND 301: Cornerstone B (Pathways) (<i>MUST be completed with Excelsior</i>)	3
ELEC 153: Circuit Theory II (AC Circuits Core)	3
ELEC 160: Electronics I (Electronics I Core)	3
ELEC 161: Electronics II (Electronics II Coe)	3
ELEC 201: Digital Electronics (Digital Electronics Core)	3
ELEC 202: Microprocessors (Microprocessors Core)	3
IT 240: Introduction to Programming (Computer Programming Core)	3
IT 390: Project Management (Project Management Core)	3
Concentration Electives Choose ONE concentration area	9
ELEC 495: Integrated Technology Assessment Capstone (<i>MUST be completed with Excelsior</i>)	3
Total Credits	37

*All coursework, except where noted, may be completed at Excelsior or transferred from another accredited institution.

Evaluation Summary	Semester Hours
Credits Accepted from Associate Degree	58
Additional Credits beyond the Associate Degree	29
Credits from Excelsior *	37
Total Credits Required for Bachelor's Degree	124

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

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