

**Onondaga Community College A.A.S. Nuclear Technology
to Excelsior College BS Nuclear Engineering Technology**
Revision: February 2017

This program plan outlines how students can transfer from the **Onondaga Community College A.A.S. Nuclear Technology** program to the **Excelsior College BS Nuclear Engineering Technology** program. Upon completion of the **A.A.S. Nuclear Technology** program, the following credits will apply for students enrolling in the **BS Nuclear Engineering Technology** program.

Onondaga Community College Credits	Semester Hours	Excelsior College Requirements	Semester Hours
MAT 119: Mathematics for Technical Disciplines I *	4	Mathematics at the Level of College Algebra or Above	4
Lab Science Elective ** <i>Should Take Recommend PHY 103: General Physics I</i>	4	Physics I Requirement	4
NET 111: Mechanical Principles and Concepts	1	Technical Elective	1
ELT 141: Circuits I	4	Electrical Theory	4
NET 101: Power Plant Fundamentals I for Nuclear Energy Technicians	3	Health Physics & Radiation Protection Requirement (when combines with NET*102)	3
ENG 103: Freshman Composition and Literature I	3	Written English Requirement	3
MAT 120: Mathematics for Technical Disciplines II *	3	Mathematics at the Level of College Algebra or Above	3
NET 112: Chemistry for Nuclear Technicians	3	Arts and Science Elective	3
ELT 161: Electronic Circuits I	4	Technical Elective (including Lab)	4
NET 102: Power Plan Fundamentals II for Nuclear Energy Technicians	4	Health Physics & Radiation Protection Requirement (when combines with NET*101)	4
ENG 104: Freshman Composition and Literature II	3	Written English Requirement	3
ELT 215: Programmable Logic Controllers	4	Technical Elective (including Lab)	4
ELT 261: Electronic Circuits II	4	Technical Elective (including Lab)	4
NET 201: Power Plant Fundamentals III for Nuclear Energy Technicians	4	Technical Elective	4
Social Science Elective	3	Social Sciences / History Requirement	3
ELT 285: Power Systems I	4	Technical Elective (including Lab)	4
NET 202: Power Plant Fundamentals IV for Nuclear Energy Technicians	4	Technical Elective	4
NET 240: Process Control and Communications	4	Technical Elective (including Lab)	4
Total Credits Required for Associate	63	Total Credits Accepted from Associate	63

* Excelsior College requires 12 credits at the level of College Algebra or above including Calculus I and II. Depending on what the student takes at their home institution, they will need the other requirement for Excelsior College.

** Excelsior College requires Physics I and II with at least one Physics lab, Chemistry with lab, Atomic Physics, Nuclear Physics, Thermodynamics. Depending on what the student takes at their home institution, they will need the other requirements for Excelsior College.

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

Onondaga Community College Credits	Semester Hours	Excelsior College Requirements
MAT 161: Calculus I	4	Mathematics Requirement
MAT 162: Calculus II	4	Mathematics Requirement
CHE 171: General Chemistry I	3	Chemistry Requirement
CHE 171L: General Chemistry I Laboratory	1	Chemistry Lab
PHY 104: General Physics II	4	Physics II (including lab)
Humanities Elective	3	Humanities Electives
COM 210: Public Speaking OR COM 220: Interpersonal Communication	3	Communications Requirement

PHI 108: Ethics	3	Ethics Requirement
CIS 125: Fundamentals of Computer Information Syst.	3	Computer Applications Requirement
Social Sciences / History Electives	6	Social Sciences / History Electives
Total Additional Credits	34	

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** Excelsior College requires Physics I and II with at least one Physics lab, Chemistry with lab, Atomic Physics, Nuclear Physics, Thermodynamics. Depending on what the student takes at their home institution, they will need the other requirements for Excelsior College.

Credits To Be Taken At Excelsior College *	
Excelsior College Requirements	Semester Hours
INL 102: Information Literacy	1
NUC 211 Radiation Measurement Lab	1
NUC 240 Atomic and Nuclear Physics	4
NUC 245 Thermodynamics	3
NUC 250 Introduction to Heat Transfer and Fluid Mechanics	3
NUC 271 Fundamentals of Reactor Safety	3
NUC 323 Material Science (Upper Level)	3
NUC 330 Reactor Core Fundamentals (Upper Level)	3
NUC 350 Plant Systems Overview (Upper Level)	3
Upper Level Technology Electives	4
NUC 495: Integrated Technology Assessment Capstone (Upper Level) <i>NOTE: The Capstone MUST be completed at Excelsior</i>	3
Total Credits	31

* 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	63
Additional Credits beyond the Associate Degree	34
Credits from Excelsior *	31
Total Credits Required for Bachelor's Degree	128

* Students are required to take a minimum of **12.00 online course 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