

**Estrella Mountain Community College AAS Power Plant Technology (Mechanical)
to Excelsior College BS in Nuclear Engineering Technology**
Revision: March 2018

This program plan outlines how students can transfer from the **Estrella Mountain Community College AAS Power Plant Technology (Mechanical)** program to the **Excelsior College BS in Nuclear Engineering Technology** program. Upon completion of the **AAS Power Plant Technology** degree, the following credits will apply for students enrolling in the **BS in Nuclear Engineering Technology** program.

Estrella Mountain CC Credits	Semester Hours	Excelsior College Requirements	Semester Hours
ENG101 - First-Year Composition	3	Written English	3
GTC107 - Technical Math I	3	Arts and Science Elective	3
GTC108 - Technical Math II	3	Arts and Science Elective	3
PPT120 - Energy Industry Fundamentals	3	Technology Elective	3
PPT121 - Plant Components	3	Technology Elective	3
CPD104 - Career and Personal Development	3	Free Elective	3
ENG102 - First-Year Composition	3	Written English	3
BPC110 or CIS105	3	Computer Applications	3
PPT101 - Hand and Power Tools	1	Free Elective	1
PPT103 - Print Reading and Plant Drawings	1	Free Elective	3
PPT118 - Conduct of Maintenance	1	Free Elective	3
PPT213 - Pumps II	3	Technology Elective	3
PPT210 - Valve Maintenance	3	Technology Elective	3
PHS110 - Natural Science	4	Chemistry/Lab	4
PPT202 - Power Plant Systems I	3	Technology Elective	3
PPT221 - Reactor Theory	2	Thermodynamics and Heat transfer	2
PPT108 - Turbines	1	Technology Elective	1
PPT115 - Hydraulics and Pneumatics	2	Fluids	2
PPT207 - Heat Exchangers	1	Duplicate Credit	0
PPT212 - Control Valves and Actuators	1	Technology Elective	1
Elective: PPT107	1	Technology Elective	1
Humanities/Fine Arts	3	Humanities	3
Social Behavioral Science	3	Social Science/History	3
Oral Communications	3	Communications	3
PPT203 - Power Plant Systems II	3	Plant System Overview	3
PPT222 - Reactor Plant Chemistry and Materials	3	Technology Elective	3
PPT205 - Rigging	2	Free Elective	2
PPT224MM - Mechanical Components for Maintenance Technicians	1	Technology Elective	1
Total Credits Required for Associate	66	Total Credits Accepted from Associate	65

* 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

Estrella Mountain CC Credits	Semester Hours	Excelsior College Requirements
PHI105 - Introduction to Ethics	3	Ethics

Social Science/History	6	Social Science/History
MAT187 - Precalculus	4	Precalculus
MAT182 - Trigonometry	3	Trigonometry
MAT220 - Calculus with Analytic Geometry I	4	Calculus I
MAT230 - Calculus with Analytic Geometry II	4	Calculus II
PHY111 - Generals Physics	4	Physics I/Lab
PHY112 - Generals Physics II	4	Physics II / Natural Science Lab I
Free Electives	4	Free Electives
Total Additional Credits	32	

* 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
NUC 230: Atomic Physics		3
NUC 240: Nuclear Physics		3
NUC 255: Electrical Theory		3
NUC 323: Materials		3
NUC 271: Fundamentals of Reactor Safety		3
NUC 210: Health Physics and Radiation Protection		3
NUC 211: Radiation Measurement Lab		0
NUC 330: Reactor Core Fundamentals		3
Technology or Natural Science Lab II		1
Technology Electives		1
XXX XXX: Capstone <i>NOTE: The Capstone MUST be completed at Excelsior</i>		3
Total Credits		27

* 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	65
Additional Credits beyond the Associate Degree	32
Credits from Excelsior *	27
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.

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