

Alexandria Technical and Community College General Engineering Sciences Certificate to

Bachelor of Science in Electrical Engineering Technology

This program plan outlines how students can apply their Alexandria Technical and Community College General Engineering Sciences Certificate to Excelsior University's B.S. in Electrical Engineering Technology degree program. This is only a guide in how credits will transfer into an Excelsior University degree program. **Actual transferability of credits are dependent upon current Excelsior University degree requirements and policies upon the date a student is admitted to Excelsior.** All students will be reviewed individually as it relates to the transferability of credits into an Excelsior University degree program.

Created October 2024

ATCC	Semester Hours	Excelsior University Requirements	Semester Hours
MATH 1425 Pre-Calculus	4	Mathematics Requirement(college Algebra or above)	4
MATH 1426 Calculus I	4	Calculus I Requirement	4
MATH 2232 Calculus II	4	Calculus II Requirement	4
MATH 2240 Calculus III	4	Arts & Sciences Requirement	4
MATH 2200 Differential Equations & Linear Algebra	4	Differential Equations Requirement	4
PHYS1081 Engineering Physics I	4	Physics I Requirement w/ Lab	4
PHYS 1082 Engineering Physics II	4	Physics II Requirement w/ Lab	4
NAV 101/PHIL 1460 Naval Ethics & Leadership**	3	Free Elective	3
NAV 102/HIST 1665 Modern Naval History**	3	Social Science/History Requirement	3
NAV 103/HIST 2410 Naval Force Design**	3	Arts & Sciences Elective	3
NAV 104/POLS 1635 Civilian/Military Org. and Policy**	3	Arts & Sciences Elective	3
NAV 105/GEOG 1500 Intro to the Geopolitical Enviro**	3	Arts & Sciences Elective	3
TOTAL CREDITS REQUIRED	43	TOTAL CREDITS ACCEPTED	43


**The NAV courses will need a separate transcript from USNCC for credit to be evaluated.

Credits To Be Taken With Excelsior University

*Courses with an * MUST be taken at Excelsior University*

INL 102: Information Literacy*	1
ENG 312: Professional and Technical Writing*	3
IND 101: Cornerstone A (Foundations) OR IND 301: Cornerstone B (Pathways)*	3
ENG 101: English Composition	3
Arts & Science Electives	5
CHE 101: Chemistry	3
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
Communications Requirement	3
Humanities Requirement	3
IT 240: Introduction to Computer Programming	3
IT 390: Project Management	3
Electrical Technology Electives	9
Concentration Electives	15
ELEC 495: Integrated Technology Assessment Capstone*	3
TOTAL CREDITS	81

Upper Level Credits: Fifteen (15) credits within the technology requirements must be upper level courses. Nine (9) of those credits must be in the chosen concentration area of Electronics or Power Systems.

EVALUATION SUMMARY		Semester Hours
Credits Accepted from Alexandria Technical Community College		43
Credits To Be Taken With Excelsior		81
TOTAL CREDITS REQUIRED		124
<p>* All credits with the exception of information literacy, cornerstone, capstone and ENG 312: Professional and Technical Writing, may be transferred from other institutions.</p> <p>* Students must choose from one of the following concentrations: Electronics, Power Systems.</p> <p>* Excelsior University 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.</p> <p>Overview: The Bachelor of Science in Electrical Engineering Technology program focuses on preparing students for electrical and engineering technology positions in technology-related industries such as electronics, electrical power, semiconductors, and computers. The program is specifically designed to advance job skills by ensuring a breadth of knowledge in technology concepts as well as understanding and skill in the chosen concentration area.</p> <p>Career Outcomes: Graduates can work in fields of electronic engineering, circuit design engineering, nano-electronics manufacturing, computer hardware as well as other related fields.</p> <p>Program Learning Outcomes: Upon successful completion of the Excelsior University ABEI-accredited Bachelor of Science in Electrical Engineering Technology, graduates will be able to:</p> <ol style="list-style-type: none"> 1. Apply knowledge, techniques, skills and modern tools of mathematics, science, engineering and technology to solve broadly defined engineering problems appropriate to the electrical engineering technology discipline. 2. Demonstrate an ability to design systems, components, or processes meeting specified needs for broadly defined engineering problems appropriate to the electrical engineering technology discipline. 3. Apply written, oral and graphical communication in broadly-defined technical and non-technical environments, and be able to identify and use appropriate technical literature. 4. Conduct standard tests, measurement and experiments and be able to analyze and interpret the results to improve processes. 5. Function effectively as a member as well as a leader on technical teams, and apply project management techniques in team project activities. 		 EXCELSIOR UNIVERSITY
What are Arts & Sciences?		
We offer the following definitions to help you make these determinations? Remember, however, before you register to take a course or examination you consult with your advisor to make sure 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		