

## Richmond Community College AAS Electric Utility Substation Relay Technology to Bachelor of Science in Electrical Engineering Technology

This program plan outlines how students can apply their Richmond Community College AAS in Electric Utility Substation Relay Technology 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.

**Revision: August 2022**

Richmond Community College	Semester Hours	Excelsior University Requirements	Semester Hours
ACA 122: College Transfer Success	1	Not applicable	0
ECO 251: Principles of Microeconomics (3) or 252: Principles of Macroeconomics (3)	3	Social Science/History Requirement	3
ELC 112: DC/AC Electricity or ELC 131: Circuit Analysis	4	Duplicative Credit	0
ENG 111: Writing and Inquiry	3	Written English Requirement	3
EUS 110: Introduction to Electric Utility Industry	4	Excess Credit	0
MAT 171: Precalculus Algebra	4	Arts and Sciences Elective	4
ELC 117: Motors and Controls (4) or 231: Industrial Controls (3)	3 or 4	Technology Elective	4
ENG 112: Writing/Researching the Disciplines	3	Humanities Requirement	3
EUS 130: Electric Utility Print Reading	4	Excess Credit	0
EUS 210: Large High Voltage Power Transformers I	3	Technology Elective	3
ELN 229: Industrial Electronics	4	Technology Elective	4
EUS 215: Large High Voltage Power Transformers II	3	Excess Credit	0
MAT 172: Precalculus/Trigonometry	4	Arts & Sciences Electives	4
EUS 225: Elec Utility Substation & Human Performance	2	Excess Credit	0
EUS 230: Electric Utility Protective Relaying I	3	Excess Credit	0
EUS 240: Substation Ancillary Systems	3	Excess Credit	0
ELC 128: Intro to Programmable Logic Controller	3	Technology Elective/Concentration Requirement	3
EUS 220: High Voltage Power Circuit Breakers	3	Technology Elective	3
EUS 235: electric Utility Protective Relaying II	3	Excess Credit	0
EUS 255: Electric Utility Troubleshooting	2	Excess Credit	0
EUS 260: Capstone & Case Studies in EUSRT	2	Excess Credit	0
Humanities/Fine Arts elective	3	Arts and Sciences Elective	3
<b>TOTAL CREDITS REQUIRED</b>		<b>64</b>	<b>TOTAL CREDITS ACCEPTED</b>
			<b>37</b>
<b>Additional Credits That May Be Transferred <u>OR</u> Taken With Excelsior</b>			
Richmond Community College	Semester Hours	Excelsior University Requirements	
Communications Elective	3	Communications Requirement	
PHI 240: Introduction to Ethics	3	Ethics Requirement	
Social Sciences	3	Social Sciences Requirement	
MAT 271 Calculus I	4	Calculus I Requirement	
MAT 272: Calculus II	4	Calculus II Requirement	
MAT 285: Differential Equations	3	Differential Equations Requirement	
PHY 151: College Physics I	3	Physics I Requirement	
PHY 152: College Physics II	3	Physics II Requirement	
PHY 110A: Physics I Lab <u>OR</u> PHY 203: Physics II Lab	1	Physics Lab Requirement	
CHM 151: General Chemistry I	4	Chemistry Requirement	
Natural Sciences Electives	3	Natural Sciences Requirement	
Arts & Sciences Elective	5	Arts & Sciences Requirement	
		<b>TOTAL ADDITIONAL CREDITS</b>	<b>39</b>
<b>Credits To Be Taken With Excelsior University</b>			
<b>Excelsior University Credit Requirements</b>			
INL 102: Information Literacy			1
IND 101: Cornerstone A (Foundations) <u>OR</u> IND 301: Cornerstone B (Pathways)			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

IT 240: Introduction to Computer Programming	3
IT 390: Project Management	3
Concentration Requirement	15
Technology Electives	0
ELEC 495: Integrated Technology Assessment Capstone	3
<b>TOTAL CREDITS</b>	<b>48</b>

EVALUATION SUMMARY		Semester Hours
Credits Accepted from Richmond Community College		37
Additional Credits That May Be Transferred <b>OR</b> Taken With Excelsior		39
Credits To Be Taken With Excelsior		48
TOTAL CREDITS REQUIRED		124

\* All credits with the exception of information literacy, cornerstone, and capstone may be transferred from other institutions.

\* 16 credits in the Technology Component must be upper level. 9 of those credits will be in the Concentration Component

\* Students must choose from one of the following concentrations: Electronics, Power Systems

\* 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.

