

CCV STEM Studies A.S. to VTC Renewable Energy Technology B.S. Pathway Agreement

Students who have completed the CCV STEM Studies A.S. degree with the technical courses listed below may transfer to the Renewable Energy B.S. program and can complete that degree with 65 credits of courses shown in the lower table.

*Technical courses required for Renewable Energy Technology degree

- MAT-1531 Calculus I (4)
- PHY 1041 Physics I (4)
- PHY 1042 Physics II (4)
- BIO 1020 Environmental Biology (4)
- CHE-1031 General Chemistry I (3)
- SDT 1010 Introduction to Sustainable Land Use (3) (VTC)
- SDT 2010 Introduction to Renewable Energy (3) (VTC)
- SDT 2020 Introduction to Green Buildings (3) (VTC)

Note: Students must take MAT-1531 Calculus I prior to transfer to VTC. The other seven technical courses may be taken after transfer to VTC; however, students would need to take these courses in addition to the 65 credits listed in the pathway.

Suggested CCV STEM Studies A.S. to VTC Renewable Energy Technology B.S. Pathway

CCV STEM Studies A.S.	Credits
First Semester Seminar	3
Technical Literacy: CIS-1041 Microcomputer Applications I	3
Oral Communication	3
ENG-1061 English Composition	3
Mathematics: MAT-1330 Pre-Calculus	4
ENG-2135 Technical Writing & Research	3
Scientific Method: CHE-1031 General Chemistry I	4
Human Expression	3
Human Behavior	3
Global Perspectives and Sustainability: BIO-1020 Environmental Biology	4
HUM-2010 Seminar in Educational Inquiry	3
INT 2860 - Community & Work Experience	3
STEM Studies program requirements – at least 23 credits*	23
May include:	
MAT-1531 Calculus I (4)	
PHY 1041 Physics I (4)	
PHY 1042 Physics II (4)	
SDT 1010 Introduction to Sustainable Land Use (3) (VTC)	
SDT 2010 Introduction to Renewable Energy (3) (VTC)	
SDT 2020 Introduction to Green Buildings (3) (VTC)	
	60
VTC courses to complete Renewable Energy B.S.	
MEC 1011 Design Communications I	2
MEC 1020 Manufacturing Processes	2
MEC 2035 Statics & Strength of Materials	4
ELT 2071 Basic Electricity	3
ELT 2072 Electronics	4
ARE 2031 Environmental Systems I	3
ARE 2032 Environmental Systems II	3
SDT 2560 Solar PV	3
SDT 2570 Solar Hot Water	3
SDT 3010 Teams & Leaders	3
SDT 3030 Wind Power Systems	3
SDT 3040 Biomass Heating Systems	3
ARE 3050 Fundamentals of Fluids & Thermodynamics	4
SDT 3119 LEED	1
SDT 4121 Capstone Studio I	3
SDT 4122 Capstone Studio II	3
BUS-4530 Technical Project Mgt	3
ELE-3XXX AH/SS 3000-level Arts and Humanities or Social Science Elective	3
12 credits Technical Electives required for VTC Renewable Energy Technology B.S.**	12
subtotal	65
TOTAL credits	125