

**CCV STEM Studies A.S. to UVM Medical Laboratory Sciences B.S. Pathway**  
**College of Nursing and Health Sciences (CNHS)**  
**Catalogue Year: 2022-2023**

<b>CCV DEGREE PROGRAM: STEM Studies</b>	<b>UVM DEGREE PROGRAM: Medical Laboratory Science</b>
Gen Ed: First Semester Seminar INT 1050 - Dimensions of Self & Society	HUMN 01X - Humanities General Education & University D1
Gen Ed: Introductory Written Expression ENG 1061 - English Composition	English General Education & University FWIL ENGS 001 - FW:Written Expression
Gen Ed: Digital and Computing Literacy Select from approved list of CCV offerings	Elective (please refer to the <a href="#">UVM Transfer Guide</a> )
Gen Ed: Mathematics <i>Choose from:</i> MAT 2021 - Statistics I MAT 1531 - Calculus I	*University QR & Math/Stat General Education & Major STAT 111 - QR:Elements of Statistics MATH 021 – QR:Calculus I
Gen Ed: Natural Science <i>Choose:</i> *BIO 2011 - Human Anatomy & Physiology I	Natural and Applied Sciences General Education *ANPS 019 - Ugr Hum Anatomy & Physiology 1
Gen Ed: Social Science <i>Choose from:</i> ANT 2010 - Archaeology: Tracing the Human Past GEO 2020 – World Regions & Cultures	Social and Behavioral Sciences General Education & University SU & D2 ANTH 024 – D2:SU:Prehistoric Archaeology GEOG 050 – D2:SU:Global Envmnts & Cultures
Gen Ed: Arts and Aesthetics Select from approved list of CCV offerings	Elective (please refer to the <a href="#">UVM Transfer Guide</a> )
Gen Ed: Humanistic Perspectives <i>Choose:</i> HUM 2020 – Bioethics	NH 120 - Health Care Ethics, Major
Gen Ed: Communication <i>Choose from:</i> ANT 2020 - Language, Culture & Communication COM 1030 - Intercultural Communication	Social and Behavioral Sciences General Education ANTH 028 – D2:Linguistic Anthropology PSYS 0XX or SOC 0XX
Gen Ed: Research & Writing Intensive <i>Choose:</i> ENG 2135 - Technical Writing & Research	ENGS 0XX – Applies as BHSC 098 – Intro to Scientific Writing
Gen Ed: HUM 2010 - Seminar in Educational Inquiry	HUMN 0XX - Humanities General Education
Program: INT 2860 – Professional Field Experience	EDEC XXX - Elective
STEM Electives - 23 college-level credits in AHS, ARC, BIO, CHE, CIS (above CIS-1020), ENV, MAT, MEC, or PHY  <i>Choose: (courses listed below total 24 credits)</i> BIO 1212 – Intro Bio: Cells & Genetic Basis *BIO 2012 – Human Anatomy and Physiology II BIO 2120 - Elements of Microbiology CHE 1031 - General Chemistry I CHE 1032 - General Chemistry II CHE 2041 – Organic Chemistry I	BIOL 001 – Principles of Biology I, Applies as BHSC 034 – Human Cell Bio *Complete BIO 2011 & BIO 2012 for equivalent ANPS 019 & ANPS 020 MMG 065 – Microbiology & Pathogenesis CHEM 031 – General Chemistry 1 CHEM 032 – General Chemistry 2 CHEM 141 – Organic Chemistry 1
<b>Total Credits at CCV: 61-62</b>	
<b>Credits remaining at UVM: 61</b> HLTH 003 - Medical Terminology (2) *MATH 019/021 or STAT 111/141 (3-4) BHSC 297 – Leadership and Management in Health Care (3) BIOC 201 – Fundamentals of Biochemistry (3) PATH 101 – Intro to Human Disease (3) MLS 221 – Clinical Chemistry I (4) MLS 222 – Clinical Chemistry II (3) MMG 222 – Adv. Medical Microbiology (4)	<b>Notes:</b> NH 050 – App to Hlth: From Pers to Syst. is waived for transfer students. <b>*UVM MATH Requirement:</b> Students <b>must</b> complete either STAT 111 or 141 (Math general education). Students must also complete 3 credits of MATH (at 019 level or higher).

MMG 223 or BHSC 242 – Immunology (3)  
BHSC 244 – Immunology Lab (1)  
MLS 231 – Hematology (4)  
MLS 255 – Clinical Microbiology (3)  
MLS 262 – Immunohematology (4)  
BHSC 281 – Applied Molecular Biology (3)  
BHSC 282 – Applied Molecular Biology Lab (1)  
MLS 220 – Clinical Practicum: Clinical Chemistry (3)  
MLS 230 – Clinical Practicum: Hematology (3)  
MLS 250 – Clinical Practicum: Microbiology (3)  
MLS 260 – Clinical Practicum: Immunohematology (3)  
MLS 292 – Topics in Med. Lab. Science (3)  
Electives: 1-2 credits

**Total credits to earn Bachelor’s degree is minimum 121.**

**Other options:**  
Students can utilize summer session at UVM to provide more balance to their schedules.

Students can also divide their junior year curriculum into two years, which would then require a total of three years to complete UVM requirements. Pathway scholarships still require full-time enrollment (minimum of 12 credits). Final year at UVM cannot be lightened due to clinical rotations.