

**CCV STEM Studies A.S. to UVM Mathematical Sciences (Mathematics Major) B.S. Pathway**  
**College of Engineering and Mathematical Sciences (CEMS)**  
**Catalogue Year: 2021-2022**

<b>CCV DEGREE PROGRAM: STEM Studies</b>	<b>UVM DEGREE PROGRAM: Mathematics (CEMS)</b>
Gen Ed: First Semester Seminar INT 1050 - Dimensions of Self & Society	HUMN 0XX – CEMS Humanities and Social Sciences
Gen Ed: Introductory Written Expression ENG 1061 - English Composition	ENGS 001 - FW:Written Expression, fulfills University FWIL & CEMS Humanities and Social Sciences
Gen Ed: Digital and Computer Literacy Select from approved list of CCV Course Offerings	Elective (please refer to the <a href="#">UVM Transfer Guide</a> )
Gen Ed: Mathematics <i>Choose:</i> MAT 1531 - Calculus I	Fulfills University QR and CEMS Major MATH 021 - QR:Calculus I
Gen Ed: Natural Science Choose 4-credit lab course from BIO, CHE, or PHY categories in the approved list of CCV offerings	CEMS Allied Field Requirement (please refer to the <a href="#">UVM Transfer Guide</a> )
Gen Ed: Social Science <i>Choose:</i> SOC 1020 - Ethnicity & Diversity in the US	SOC 019 - D1:Race Relations in the US, fulfills University D1 requirement and CEMS Humanities and Social Sciences
Gen Ed: Arts and Aesthetics Select from approved list of CCV offerings	CEMS Humanities and Social Sciences (please refer to the <a href="#">UVM Transfer Guide</a> )
Gen Ed: Humanistic Perspectives <i>Choose:</i> Select from approved list of CCV offerings	CEMS Humanities and Social Sciences (please refer to the <a href="#">UVM Transfer Guide</a> )
Gen Ed: Communication ANT 2020 – Language, Culture, and Communication	ANTH 028 – D2:Linguistic Anthropology, fulfills University D2 requirement and CEMS Humanities and Social Sciences
Gen Ed: Research & Writing Intensive ENG 2135 - Technical Writing & Research	ENGS 0XX (1-99 level ENGS credit) – CEMS Humanities and Social Sciences
Gen Ed: HUM 2010 - Seminar in Educational Inquiry INT 2860 – Professional Field Experience	HUMN 0XX – CEMS Humanities and Social Sciences EDEC 0XX (1-99 level EDEC Credit) – Elective Credit
STEM Electives: <i>Choose a minimum of 23 college-level credits in:</i> AHS, ARC, BIO, CHE, CIS (above CIS-1020), ENV, MAT, MEC, or PHY  <i>Choose:</i> MAT 2532 - Calculus II MAT 2021 - Statistics ENV 1010 - Introduction to Environmental Science  <i>Choose</i> BIO or CHE course (in addition to the course used to meet Science Method Requirement)  Additional courses will meet Elective credits towards UVM degree	MATH 022 - QR Calculus II, CEMS Major STAT 111 - QR:Elements of Statistics, CEMS Major ENSC 001 - SU:Introduction to Environmental Sciences, CEMS Allied Field requirement  CEMS Allied Field Requirement (please refer to the <a href="#">UVM Transfer Guide</a> )  (please refer to the <a href="#">UVM Transfer Guide</a> )
<b>Total Credits at CCV: 60</b>	
<b>*Credits remaining at UVM: 60</b> Major: **CEMS 050, CS 021, MATH 052, ***121, ***122 (or 124), 241, 251; 21 additional credits in mathematics/statistics/computer science numbered 100 or above. At least 12 of these credits must be in courses numbered 200 or above and no more than 12 credits can be taken in computer science; Allied Field credits (total of 24 credits between transfer and those completed at UVM) Electives: As needed to reach 60 total credits <b>Total credits required to earn Bachelor's degree is minimum 120.</b>	<i>*Order of UVM courses will be dependent on course offerings each year.</i>  <i>**Please note: CEMS 050 – Please consult with your CEMS advisor for an approved substitution.</i>  <i>***Due to the rigor of the MATH curriculum, students can utilize summer course offerings of MATH 121 and MATH 122, prior to matriculation at UVM, to provide for a more balanced workload.</i>