


**CCV STEM Studies A.S. to UVM Mathematical Sciences (Mathematics Major) B.S. Pathway**  
**College of Engineering and Mathematical Sciences (CEMS)**  
**Catalogue Year: 2023-2024**

<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 1XXX - D1, CEMS Humanities and Social Sciences
Gen Ed: Introductory Written Expression ENG 1061 - English Composition	ENGL 1001 - Written Expression, WIL1, 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 <i>Additional MAT coursework to prepare for Calculus I can be completed as STEM electives – see below</i>	MATH 1234 - Calculus 1, MA, Major
Gen Ed: Natural Science <i>Choose:</i> CHE 1031 - General Chemistry I	CHEM 1400 - General Chemistry 1, N2, QD, CEMS Allied Field
Gen Ed: Social Science <i>Choose from:</i> ECO 2020, ECO 2030, or PSY 1010	S1, Allied Field, CEMS Humanities and Social Sciences
Gen Ed: Arts and Aesthetics <i>Choose from one of the following:</i> ARH 2011, ARH 2012, ARH 2020, ARH 2050, ART 1011, ART 1020, ART 1050, ART 1070, ART 1160, ART 1170, DAN 2210, ENG 2120, ENG 2150, FLM 1050, FLM 2060, HUM 2200	AH1, plus DAN 2210 fulfills D2 requirement and HUM 2200 fulfills D1 requirement (please refer to the <a href="#">UVM Transfer Guide</a> ); CEMS Humanities and Social Sciences
Gen Ed: Humanistic Perspectives <i>Choose:</i> ANT 1010 - Intro to Cultural Anthropology	ANTH 1100 - Cultural Anthropology, D2, S1, SU, CEMS Humanities and Social Sciences
Gen Ed: Communication <i>Choose from:</i> COM 1020 - Interpersonal & Small Group Communication COM 1030 - Intercultural Communication	SPCH 1XXX – OC, CEMS Humanities and Social Sciences SOC 1XXX - GC2, S1, CEMS Humanities and Social Sciences
Gen Ed: Research & Writing Intensive ENG 2135 - Technical Writing & Research	ENGL 1XXX - WIL1, CEMS Humanities and Social Sciences
Gen Ed: HUM 2010 - Seminar in Educational Inquiry	HUMN 1XXX - WIL1, CEMS Humanities and Social Sciences
INT 1017 - Creative and Critical Thinking	IDSS 1XXX - Elective
INT 2860 - Professional Field Experience	EDEC XXXX - Elective
STEM Electives: <i>Choose a minimum of 22 college-level credits in:</i> AHS, ARC, BIO, CHE, CIS (above CIS-1020), ENV, MAT, MEC, or PHY  <i>Choose:</i> Any MAT course to best prepare for Calculus MAT 2532 - Calculus II CHE 1032 - General Chemistry II  <i>Additional STEM Electives:</i> consult with advisor about applicability of these electives towards your minor requirements at UVM.	Elective MATH 1248 - Calculus II, MA, Major CHEM 1450 – General Chemistry 2, N2, QD, CEMS Allied Field  Please refer to the <a href="#">UVM Transfer Guide</a>
<b>Total Credits at CCV: 60</b>	

<p><b>Core/Major:</b> *CEMS 1500, CS 1210, MATH 2055, **MATH 2248, **MATH 2522 (or MATH 2544), MATH 3468, MATH 3551; STAT 1410 or STAT 2430; One 3-credit course at the level of MATH 4XXX (Capstone or Undergraduate Honors Thesis) + 18 additional credits in MATH at the 2000-level or higher, including 9 credits at the 3000-level or higher.</p> <p><b>CCC:</b> (1) AH course, (1) WIL2/OC or GC (depends on what is completed at CCV); Need 40 unique CCC credits.</p> <p><b>Elective credits</b> as needed to reach total credits for graduation.</p> <p><b>Total credits required to earn Bachelor's degree is minimum 120.</b></p>	<p><i>Order of UVM courses will be dependent on course offerings each year.</i></p> <p><i>*Please note: CEMS 1500 – Please consult with your CEMS advisor for an approved substitution.</i></p> <p><i>**Due to the rigor of the MATH curriculum, students can utilize summer course offerings of MATH 2248 and MATH 2522, prior to matriculation at UVM, to provide for a more balanced workload.</i></p>
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## CATAMOUNT CORE: UVM'S GENERAL EDUCATION CURRICULUM



### CATAMOUNT CORE CURRICULUM

CATAMOUNT CORE is made up of 42 credits in courses distributed across three main areas:

- Liberal Arts (21 credits)
- Core Skills (9 credits)
- Common Ground Values (12 credits)

Students will be able to take courses that fulfill more than one category, but they must still take at least 40 unique credits of courses that have been approved to fulfill CATAMOUNT CORE CURRICULUM requirements.

#### LIBERAL ARTS 21 CREDITS

**AH ARTS & HUMANITIES**  
6 CREDITS FROM ANY OF THE FOLLOWING

AH1: Arts  
AH2: Literature  
AH3: Humanities

**S1 SOCIAL SCIENCES**  
6 CREDITS

**N NATURAL SCIENCES**  
6 CREDITS FROM ANY OF THE FOLLOWING

N1: Natural Science (no Lab)  
N2: Natural Science (w/Lab)

**MA MATHEMATICS**  
3 CREDITS

#### CORE SKILLS 9 CREDITS

**QD QUANTITATIVE & DATA LITERACY**  
3 CREDITS

**WIL1 WRITING & INFORMATION LITERACY 1**  
3 CREDITS

**WIL2/OC WRITING & INFORMATION LITERACY 2**  
3 CREDITS

WIL2: Writing & Information Literacy Tier 2  
- OR -  
OC: Oral Communication

#### COMMON GROUND VALUES 12 CREDITS

**D DIVERSITY**  
6 CREDITS (INCLUDING AT LEAST 3 D1 CREDITS)

D1: Race and Racism in the US  
D2: Diversity of Human Experience

**SU SUSTAINABILITY**  
3 CREDITS

**GC GLOBAL CITIZENSHIP**  
3 CREDITS

GC1: Global Systems & Problems  
- OR -  
GC2: Developing Global Citizens

LEARN MORE AT [GO.UVM.EDU/CATAMOUNTCORE](http://GO.UVM.EDU/CATAMOUNTCORE)