

CCV STEM Studies to Castleton Chemistry PATHWAY

(Concentrations available in Biochemistry & Environmental Chemistry- additional courses required)

Fall 2017-Summer 2018

CCV DEGREE PROGRAM: STEM Studies	CASTLETON DEGREE PROGRAM: Chemistry
Gen Ed: First Semester Seminar:INT-1050	Gen Ed: World Views Frame
Gen Ed: Technological Literacy course	Gen Ed: Computing Intensive Requirement
Gen Ed: Communication: choose ENG-1070 Effective Speaking	Gen Ed: Speaking: ENG-1070 Effective Speaking
Gen Ed: ENG-1061 English Composition	Gen Ed: ENG-1061 English Composition
Gen Ed: Mathematics: choose MAT-1531 Calculus I	Gen Ed: Scientific and Math Understanding Frame MAT-1531 Calculus I
Gen Ed: Quantitative Reasoning Assessment	Gen Ed: Quantitative Reasoning Exam
Gen Ed: Research/Writing Intensive course: ENG-2135 Technical Writing & Research	Gen Ed: Writing Intensive course
Gen Ed: Scientific Method course CHE-1031 General Chemistry I*	Gen Ed: Scientific and Math Understanding Frame CHE-1051 Chemistry I
Gen Ed: Human Expression: Choose course in ART, ARH, DAN, ENG (above ENG-1300), FLM, MUS, THA	Gen Ed: Aesthetics Understanding Frame
Gen Ed: Human Behavior	Gen Ed: Social & Behavioral Understanding Frame
Gen Ed: Global Perspectives & Sustainability Choose course in ANT, ECO, PSY, SSC, SWK, SOC, WGS	Gen Ed: World Views Frame
Gen Ed: HUM-2010 Seminar in Educational Inquiry	Gen Ed: Aesthetic Understanding Frame; Writing Intensive; and Information Literacy Graduation Standard
Additional credits to reach 23 college-level credits from any combination of AHS, ARC, BIO, CHE, CIS (above CIS-1020), ENV, GEY, MAT, or PHY Choose: Prerequisites for Calculus I CHE-1032 General Chemistry II* PHY-1041 Physics I PHY-1042 Physics II and devote extra attention to calculus or Enroll in Physics at Castleton for support of Physical Chemistry MAT-1532 Calculus II BIO-1212 Intro to Biology: Cells & Genetics Basis of Life* BIO-2120 Elements of Microbiology	CHE-1052 Chemistry II PHY 2110 Physics I PHY 2210 Physics II MAT-1532 Calculus II BIO-1121 Biology I BIO-2125 Fundamentals of Microbiology
INT-2860 Community & Work Experience	Elective, can be applied to Civic Engagement Certificate
Total CCV credits: 60+	
	CHE-2111 Organic Chemistry I 4 cr If possible, CCV students should enroll in Organic Chemistry I and II during their second year at CCV; if impossible, they should make early completion of these courses a priority.
	CHE-2112 Organic Chemistry II 4 cr
	CHE-3020 Analytical Chemistry 4 cr
	CHE-3031 Physical Chemistry I 4 cr
	CHE-3032 Physical Chemistry II 4 cr
	CHE 3150 Inorganic Chemistry 3 cr
	SCI -1230 Pathways to Science 1 cr
	SCI -2100 Science Colloquium 1 cr
	One of the following: BIO 1121 or MAT 2036- CHEM only, students with concentration have alternate requirement-see catalog
	Concentration requirements – 9 credits See Castleton catalog for specific requirements for Chemistry, Chemistry with Biochemistry Concentration (4 additional credits required), and Chemistry with Environmental Chemistry Concentration (7-8 additional credits required)
	Soundings: INT-1051 <i>waived</i> , INT-1053, INT-3054
	Speaking Intensive in the discipline
	ENG-2260 Touchstones
	Course(s) to satisfy General Education “Frames”
	Other requirements and electives to reach 122 credits

ESTIMATED ADDITIONAL CASTLETON CREDITS FOR BACHELOR DEGREE: 62

*Grades of "C" or higher required to apply to CU Chemistry major.