

The following page indicates the **course-to-course equivalency**, including general education requirements, as agreed upon within the articulation agreement between the Associate of Sciences Degree, Chemistry, calculus based physics of Harford Community College and the Bachelor of Science program in Chemistry at Sweet Briar College.

HARFORD COMMUNITY COLLEGE to SWEET BRIAR COLLEGE					
HCC Course	Area Satisfied	Credits	Sweet Briar College Equivalent	Credits	Area Satisfied
CHEM 111: General Chemistry I (GL)	Program Req. / General Ed.	4	CHEM 131 & CHEM 141	4	Prog Req & CORE 160
ENG 101: English Composition (GE)	General Ed.	3	ENGL 1XX	3	CORE 120
Choose from PS (GB) or ECON (GB)*	General Ed.	3	Recommend POLS or ECON course	3	CORE 140
Physical Education Elective	Program Req.	1	PHED 1XX	1	Elective
CHEM 112: General Chemistry II A (GL)	Program Req.	4	CHEM 252 & CHEM 253: Quant/Analy Chem w/Lab	4	Prog Req
Arts/Humanities Elective (GH)* (ART 121 is recommended)	General Ed.	3	Student Choice	3	CORE 150
CHEM 207: Organic Chemistry I	Program Req.	4	CHEM 231 & CHEM 233: Organic Chem I w/Lab	4	Prog Req
Program Electives**	Program Elective	12	3-credit elective	12	Lab is Prog Req
MATH 203: Calculus I (GM)	Program Req. / General Ed.	4	MATH 123: Calculus I	4	Prog Req & CORE 170
MATH 204: Calculus II (GM)	Program Req.	4	MATH 124: Calculus II	4	Prog Req
CHEM 208: Organic Chemistry II	Program Req.	4	CHEM 232 & CHEM 234: Organic Chem II w/Lab	4	Prog Req
PHYS 203: General Physics: Mechanics and Particle Dynamics (GS) AND PHYS 200: General Physics (GL)	Prgrm Req. / General Ed./Prgrm Elective	3 1	PHYS 171: General Physics I	3 1	Prog Req/ Lab is Prog Req
PHYS 204: General Physics: Vibrations, Waves, Heat, Electricity and Magnetism (GL)	Program Req.	4	PHYS 172: General Physics II	4	Prog Req
* Any Arts/Humanities Elective (GH) course except CMST 210, MC 105, MC 208, PHIL, RELG	General Ed.	3	Any (GH) course except CMST 210, MC 105, MC 208, PHIL, RELG	3	CORE 150
Behavioral/Social Science Elective (GB)*	General Ed.	3	Student Choice	3	
Total:		60		60	

***Diversity Requirement:** one 3-credit general education course for either GH or GB must be a designated diversity (D) course.

****Program Electives: (Select to complete 60 credits):**

BIO 120: General Biology I (4); BIO 208: Genetics (4); MATH 206: Calculus III (4); MATH 208: Elementary Differential Equations (3); ENG 109: English Composition: Research Writing (3); CSI 131: Computer Science I (4); CSI 132: Computer Science II (4); PHYS 200: General Physics I Lab (1); PHYS 205: General Physics: Electrodynamics, Light Relativity and Modern Physics (3); General Elective (1-4)

Transfer Guide for Chemistry, Calculus Based Physics, A.S. to Chemistry, B.S. at Sweet Briar College

All HCC transfer students seeking the Bachelor of Science program in Chemistry at Sweet Briar College must successfully complete the following course work required within the program:

SBC		
Program & Degree Requirements		
SBC Course Information	Credits	Notes
Leadership Core Requirements: 15 credits		
CORE 110; CORE 130; CORE 210; CORE 220; CORE 310	15	Remaining Core courses to be taken at SBC
Required Major Courses: 28 credits		
CHEM 321: Biochemistry	4	
CHEM 331: Physical Chemistry: Quantum Mechanics & Spectroscopy	3	
CHEM 332: Physical Chemistry: Kinetics & Thermodynamics	3	
CHEM 341: Intermediate Laboratory I	3	
CHEM 342: Intermediate Laboratory II	3	
CHEM 431: Instrumental Analysis	3	
CHEM 432: Advanced Inorganic Chemistry	3	
CHEM 450: Advanced Organic Chemistry	3	
CHEM 451: Senior Research	3	
General Elective Courses:		
	17	
Total Credits:	120	

SUMMARY:

Total credits hours to transfer from Harford Community College: 60

Total credit hours needed in General Education at SBC: 15

Total credit hours of Required Major Courses at SBC: 28

Total credit hours of Other Program Requirements to be satisfied at SBC: 17

Total credit hours for B.S. degree from SBC: 120