

CARROLL 4 Year Program Articulation Pathway 🚱 UMBC



Catalog 2019-2020

Physical Science, Chemistry, A.S.									
e e		Fall Semester		Spring Semester					
unity College	Year 1	Course	Credits	Course	Credits				
		*CHEM105 - Principles of General Chemistry I	4	*CHEM106 - Principles of General Chemistry II	4				
		ENGL101 - College Writing	3	ENGL102 - Writing About Literature	3				
		*BIOL101 - Fundamentals of Biology I	4	*MATH136 - Calculus of a Single Variable II	4				
ın,		*MATH135 - Calculus of a Single Variable I	4	**Elementary Foreign Language I (Arts and Humanities)	3				
Commu		Total	15	Total	14				
	Year 2	Course	Credits	Course	Credits				
0		*CHEM201 - Organic Chemistry I	5	*CHEM202 - Organic Chemistry 2	5				
Carroll (*PHYS111 - Physics I for Scientist & Engineers	4	*PHYS212 - Physics 2 for Scientist & Engineers	4				
		Social & Behavorial Science	3	*MATH205 - Multivariable Calculus	4				
		**Elementary Foreign Language II (Arts and Humanities)	3	Social & Behavorial Science	3				
		Total	15	Total	16				

Articulation Notes:

- * Course can be used to satisfy UMBC major requirements when completed with a "C" or better.
- ** Foreign Language Requirement: The language requirement consists of completion of a foreign language through the 201 level or demonstrated proficiency at that level. The proficiency requirement is met by previous experience as follows: 1) completion of level 4 or higher of a language in high school, or 2) corresponding AP, IB or CLEP credit, or 3) completion of a language through the 201 level at a regionally accredited college or university.

Chemistry, B.S.

		Fall Semester		Spring Semester	
	Year 3	Course	Credits	Course	Credits
Ι.		CHEM300 - Analytical Chemistry I	4	CHEM302 - Physical Chemistry 2	3
		CHEM301 - Physical Chemistry I	4	CHEM312L - Advanced Laboratory 2	3
Ι.		CHEM311L - Advanced Laboratory I	3	CHEM405 - Inorganic Chemistry	3
ا ر		**Intermediate Foreign language I	3	Arts and Humanities GEP Requirement	3
ל ל				Elective	3
		Total	14	Total	15
5	ear	Course	Credits	Course	Credits
		CHEM405L - Advanced Inorganic Chemistry Laboratory	3	CHEM461 - Advanced Instrumental Analysis	4
- '		Chem Biochemistry Elective or other Elective	3	Chem Biochemistry Elective or other Elective	3
		Social Science GEP Requirement	3	Elective	3
		Elective	3	Elective	3
		Elective or Research	3	Elective or Research	3
		Total	15	Total	16

With questions at Carroll Community College, contact Sithy Maharoof at smaharoof@carrollcc.edu or 410-386-8290

With questions at UMBC, contact Paul Smith at pjsmith@umbc.edu at 410-455-2519

Updated: 9/22/2020

Carroll Community College - AS in Physical Science, Chemistry UMBC - Chemistry B.S. Catalog Year: 2019-2020

Carroll Community College			UMBC Equivalency			
CODE	TITLE	Credits	Course	GEP	Credits	
*CHEM-105 & *CHEM-106		8	CHEM 101 + CHEM 102 + CHEM 102L	S+SL	8	
ENGL-101	College Writing	3	ENGL 100 - Composition	EN	3	
*BIOL-101	Fundamentals of Biology 1	4	BIOL 141 - Foundations of Biology I	SL	4	
*MATH-135	Calculus of a Single Variable 1	4	MATH 151 - Calculus and Analytic Geometry I	М	4	
ENGL-102	Writing About Literature	3	ENGL 210 - Introduction to Literature	AH	3	
*MATH-136	Calculus of a Single Variable 2	4	MATH 152 - Calculus and Analytic Geometry II	М	4	
**Elementary	Foreign Language I (Arts and Humanities)	3	Introductory Foreign Language I	AH	3	
*CHEM-201	Organic Chemistry 1	5	CHEM 351 + CHEM 351L	SL	5	
*PHYS-111	Physics 1 For Scientists And Engineers	4	PHYS 121 - Introductory Physics I	S	4	
Social & Beha	Social & Behavioral Science			SS	3	
**Elementary Foreign Language II (Arts and Humanities)		3	Introductory Foreign Language II	С	3	
*CHEM-202	Organic Chemistry 2	5	CHEM 352 + CHEM 352L	SL	5	
*PHYS-212	Physics 2 For Scientists And Engineers	4	PHYS 122 - Introductory Physics II	S	4	
*MATH-205	Multivariable Calculus	4	MATH 251 - Multivariable Calculus		4	
Social & Beha	vioral Science	3		SS	3	
	Total Credits at Carroll Community College:	60	Transferrable credits to UMBC (Maximum 60): 60			

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