ARROLL 4 Year Program Articulation Pathway 🚱 UMBC



Catalog 2019-2020

	Fall Semester		Spring Semester		
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	
	*MATH135 - Calculus of a Single Variable I	4	**Elementary Foreign Language I (Arts and Humanities)	3	
	Total	15	Total	14	
Year 2	Course	Credits	Course	Credits	
	*CHEM201 - Organic Chemistry I	5	*CHEM202 - Organic Chemistry 2	5	
	*PHYS111 - Physics I for Scientist & Engineers	4	*PHYS212 - Physics 2 for Scientist & Engineers	4	
	Social & Behavorial Science	3	Social & Behavorial Science	3	
	**Elementary Foreign Language II (Arts and Humanities)	3	Elective	4	
	Total	15	Total	16	

Articulation Notes:

Carroll Community College

- * 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.

Biochemistry & Molecular Biology, B.S.

		Fall Semester		Spring Semester	
		Course	Credits	Course	Credits
	r 3	CHEM300 - Anayltical Chemistry	4	CHEM438 - Comprehensive Biochemistry 2	4
	Б	CHEM437 - Comprehensive Biochemistry I	4	CHEM437L - Biochemistry Laboratory	4
	Ye	BIOL142 - Foundations of Biology: Ecology & Evolution	4	BIOL302 - Molecular and General Genetics	4
ונ		**Intermediate Foreign Language I	3	Arts and Humanities GEP Requirement	3
2		Total	15	Total	15
≥		Course	Credits	Course	Credits
_		90 ui 30	Cicuits	Course	Credits
5		BIOL303 - Cell Biology	4	CHEM303 - Physical Chemistry for Biochemical Sciences	3
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5	ar	BIOL303 - Cell Biology	4	CHEM303 - Physical Chemistry for Biochemical Sciences	3
5	_	BIOL303 - Cell Biology BIOL300L - Experimental Biology Laboratory	4 2	CHEM303 - Physical Chemistry for Biochemical Sciences Elective	3
5	ar	BIOL303 - Cell Biology BIOL300L - Experimental Biology Laboratory Social Science GEP Requirement	4 2 3	CHEM303 - Physical Chemistry for Biochemical Sciences Elective Elective	3 3 3

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 - Biochemistry and Molecular Biology 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	S	4
*MATH-135	Calculus of a Single Variable 1	4	MATH 151 - Calculus and Analytic Geometry	М	4
ENGL-102	Writing About Literature	3	ENGL 210 - Introduction to Literature	АН	3
*MATH-136	Calculus of a Single Variable 2	4	MATH 152 - Calculus and Analytic Geometry	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 & Behavioral Science		3		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
Elective		4			4
Social & Behavioral Science		3		SS	3
Total Credits at Carroll Community College:		60	Transferrable credits to UMBC (Maximum 60):		60

^{*} Course can be used to satisfy UMBC major requirements when completed with a "C" or better.

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